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**Twenty-ninth Annual Report**

OF THE

**BOARD OF TRUSTEES**

OF THE

**OHIO STATE UNIVERSITY**

TO THE

**GOVERNOR OF OHIO**

FOR THE

**Year Ending June 30, 1899** 1898-1901

PARTS I-II.

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June, 1899



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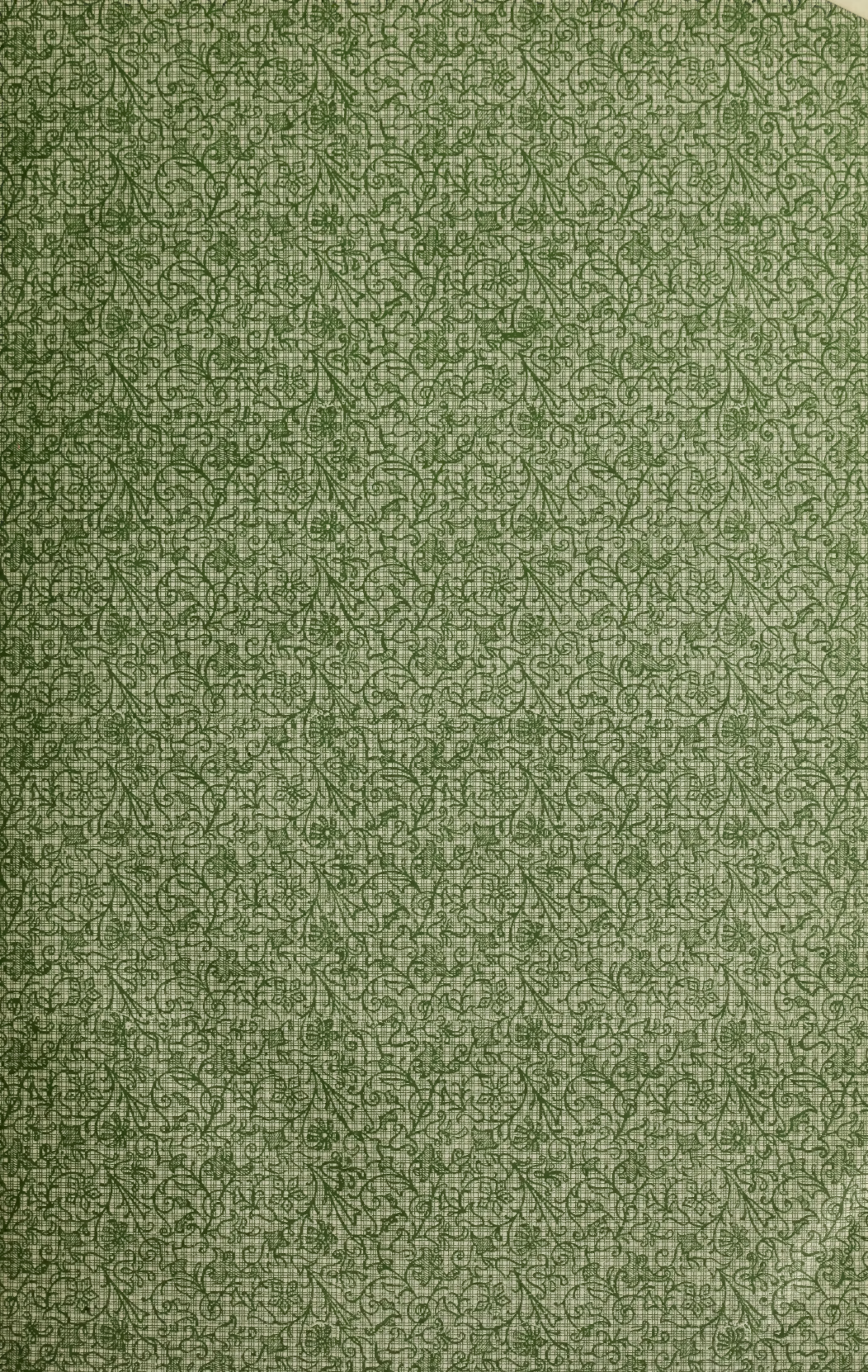
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OF THE

OHIO STATE UNIVERSITY

TO THE

GOVERNOR OF OHIO

FOR THE

YEAR ENDING JUNE 30, 1899.



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1898-1899

		Term Expires.
WM. I. CHAMBERLAIN.....	Hudson.....	May 13, 1899.
DAVID M. MASSIE.....	Chillicothe.....	" 1900.
JOHN T. MACK.....	Sandusky.....	" 1901.
LUCIUS B. WING.....	Newark.....	" 1902.
THOMAS J. GODFREY.....	Celina.....	" 1903.
J. McLAIN SMITH.....	Dayton.....	" 1904.
PAUL JONES.....	Columbus.....	" 1905.
OSCAR T. CORSON.....	Columbus.....	" 1906.

## OFFICERS OF THE BOARD

WM. I. CHAMBERLAIN.....	President.
J. McLAIN SMITH.....	Vice President.
ALEXIS COPE.....	Secretary.
FRED W. PRENTISS.....	Treasurer.

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T. J. GODFREY	L. B. WING	T. J. GODFREY
PAUL JONES	JOHN T. MACK	J. McLAIN SMITH

## FACULTY AND COURSES OF STUDY

THOMAS J. GODFREY	WM. I. CHAMBERLAIN	JOHN T. MACK
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# MEMBERS OF THE FACULTIES, AND OTHER INSTRUCTORS

1898-1899

---

JAMES HULME CANFIELD,  
President — University Grounds.

EDWARD ORTON,  
Professor of Geology and State Geologist — 100 Twentieth street.

WILLIAM HENRY SCOTT,  
Professor of Philosophy — 131 Fifteenth avenue.

SIDNEY AUGUSTUS NORTON,  
Lecturer in General Chemistry — 363 East Town street.

NATHANIEL WRIGHT LORD,  
Professor of Mineralogy and Metallurgy, Director of the School of Mines, and Dean of the  
College of Engineering — 338 West Eighth avenue.

SAMUEL CARROLL DERBY,  
Professor of Latin — 93 Fifteenth avenue.

WILLIAM RANE LAZENBY,  
Professor of Horticulture and Forestry — The Marion.

JOSIAH RENICK SMITH,  
Professor of the Greek Language and Literature, and President pro tempore of the University  
Faculty — 239 East State street.

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Professor of Agricultural Chemistry — 1342 Forsythe avenue.

BENJAMIN FRANKLIN THOMAS,  
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Professor of American History and Political Science, and of Constitutional Law —  
University Grounds.

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Professor of Mathematics — Sixteenth and Indianola avenues.

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Professor of Civil Engineering — 1343 Forsythe avenue.

ERNST AUGUST EGGERS,  
Professor of Germanic Languages and Literatures — University Grounds.

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Professor of Anatomy and Physiology — 218 King avenue.

WILLIAM ASHBROOK KELLERMAN,  
Professor of Botany — 175 Eleventh avenue.

THOMAS FORSYTH HUNT,  
Professor of Agriculture, and Dean of the College of Agriculture and Domestic Science —  
188 West Tenth avenue.

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Professor of Pharmacy, and Dean of the College of Pharmacy — University Grounds.

BENJAMIN LESTER BOWEN,  
Professor of Romance Languages and Literatures — 46 Jefferson avenue.

JOSEPH VILLIERS DENNEY,  
Professor of Rhetoric and the English Language, and Secretary of the University Faculty —  
The Marion.

ALLEN CAMPBELL BARROWS,  
Professor of English Literature and Dean of the College of Arts, Philosophy and Science  
— 15th and Indianola avenues.



EDWARD ORTON, JR.,

Director of the Department of Clay-Working and Ceramics—The Normandie.

JOHN THOMAS MARTIN,

Professor of Military Science and Tactics—1194 Fair avenue.

ROBERT IRVING FULTON,

Professor of Elocution and Oratory—Delaware, Ohio.

WILLIAM FOREST HUNTER,

Dean of the College of Law; Professor of the Law of Sales, Bailments, Evidence, Wills, Construction of Contracts, Law of Corporations; Judge of Moot Courts—  
1032 Bryden Road; 18 Board of Trade.

DAVID FRANKLIN PUGH,

Professor of Equity Jurisprudence and Law of Real Property—1320 Highland street; Court House.

EMILUS OVIATT RANDALL,

Professor of Commercial Law—1025 Oak street; Supreme Court Room.

EDGAR BENTON KINKEAD,

Professor of the Law of Pleading and Practice, Torts, and of Criminal Law—Wyandotte avenue; Board of Trade.

WILLIAM HERBERT PAGE,

Professor of Elementary Law—527 East Broad street; 27 Board of Trade.

WILLIAM THOMAS MAGRUDER,

Professor of Mechanical Engineering—329 W. Eighth avenue.

J. P. GORDY,

Professor of Pedagogy—The Normandie.

WM. McPHERSON, JR.,

Professor of General Chemistry—97 Hamilton avenue.

JOSEPH NELSON BRADFORD,

Professor of Drawing—54 West Tenth avenue.

DAVID STUART WHITE,

Professor of Veterinary Medicine, and Dean of the College of Veterinary Medicine—West Fifth avenue.

HERBERT OSBORN,

Professor of Zoology and Entomology—357 West Seventh avenue.

FRANK EDWIN SANBORN,

Director of the Department of Industrial Arts—380 West Eighth avenue.

HENRY CURWIN LORD,

Director of the Emerson McMillen Observatory and Associate Professor of Astronomy—401 W. Sixth avenue.

FRANK ARNOLD RAY,

Associate Professor of Mine Engineering—The Marion.

OLIVE BRANCHE JONES,

Librarian—53 Eleventh avenue.

EMBURY ASBURY HITCHCOCK,

Associate Professor of Experimental Engineering—380 West Eighth avenue.

FRANCIS CARY CALDWELL,

Associate Professor of Electrical Engineering—380 W. Eighth avenue.

PERLA G. BOWMAN,

Associate Professor of Domestic Science—167 West Eleventh avenue.

CLARENCE P. LINHART,

Director of the Gymnasium—The Great Southern.

WILBUR HENRY SIEBERT,

Associate Professor of History—1332 Highland avenue.

WILLIAM DAVID GIBBS,

Associate Professor of Agriculture—Neil and Tenth avenues.

FREDERICK CONVERSE CLARK,

Associate Professor of Economics and Sociology—Fifteenth and Indianola avenues.

STELLA ELLIOTT,  
Associate Director of the Gymnasium—54 W. Tenth avenue.

GEORGE WASHINGTON McCOARD,  
Assistant Professor of Mathematics—319 West Fifth avenue.

CHARLES WALTER MESLOH,  
Assistant Professor of German—University Grounds.

HERBERT JAMES NOYES,  
Assistant Professor of Dairy Husbandry—Richland City, Wisconsin.

JAMES ELLSWORTH BOYD,  
Assistant Professor of Physics—25 Maynard avenue.

JOSEPH RUSSELL TAYLOR,  
Assistant Professor of Rhetoric—86 King avenue.

CLAIR ALBERT DYE,  
Assistant Professor of Pharmacy—169 King avenue.

EDWARD M. VAN HARLINGEN,  
Assistant Professor of Anatomy and Physiology—1594 Neil avenue.

THOMAS EWING FRENCH,  
Assistant Professor of Drawing—435 E. Naghten street.

ARTHUR WINFRED HODGMAN,  
Assistant Professor of Greek and Latin—164 West Ninth avenue.

CHRISTOPHER ELIAS SHERMAN,  
Assistant Professor of Civil Engineering—244 Twentieth street.

CHARLES WILLIAM FOULK,  
Assistant Professor of General Chemistry—41 Eleventh avenue.

WILLIAM LUCIUS GRAVES,  
Assistant Professor of Rhetoric—878 Dennison avenue.

JOHN ADAMS BOWNOCKER,  
Assistant Professor of Geology—Clark Place and High street.

JAMES HENRY COLLINS,  
Lecturer on Federal Practice—57 Lexington avenue; Ruggery Building.

FAXON FRANKLIN DUANE ALBERY,  
Lecturer on the Law of Insurance—37 Lexington avenue; 119½ S. High street.

JOHN A. SHAUCK,  
Lecturer on Supreme Court Practice, Special Cases, etc.—95 Winner avenue.

J. WARREN SMITH,  
Lecturer on Meteorology—55 Cleveland avenue.

CHARLES LINCOLN ARNOLD,  
Assistant in Mathematics—239 West Tenth avenue.

CHARLES WILLIAM WEICK,  
Assistant in the Industrial Department and Foreman of the Carpenter and Pattern Shops—  
134 West Eighth avenue.

WILLIAM ABNER KNIGHT,  
Assistant in the Industrial Department and Foreman of the Machine Shops—206 West Lane  
avenue.

HARRIET TOWNSHEND,  
Assistant Librarian—53 West Eleventh avenue.

KARL DALE SWARTZEL,  
Assistant in Mathematics—57 West Frambes avenue.

THOMAS KENYON LEWIS,  
Assistant in Drawing—68 East Seventh avenue.

(1) CHARLES A. BRUCE,  
Assistant in French—234 West Tenth avenue.

FRANCIS LEROY LANDACRE,  
Assistant in Zoology and Entomology—70 West Tenth avenue.



JAMES STEWART HINE,  
Assistant in Entomology — 117 King avenue.

WILLIAM FINLEY LAVERY,  
Assistant in Veterinary Medicine — 1700 Neil avenue.

MAUD DOROTHY JEFFREY,  
Assistant Librarian — 65 W. Eleventh avenue.

GERTRUDE STOWELL KELLICOTT,  
Assistant Librarian — 1332 Highland street.

(2) CHARLES CONRAD SLEFFEL,  
Assistant in Industrial Department and Foreman of the Forge Room — 174 W. First avenue.

ALBERT EARL VINSON,  
Assistant in Agricultural Chemistry — Neil and Tenth avenue.

(1) FREDERICK EDWARD KESTER,  
Assistant in Physics — 1473 Neil avenue.

JOHN H. SCHAFFNER,  
Assistant in Botany — 61 W. Eleventh avenue.

CLARK WISSLER,  
Assistant in Philosophy and Pedagogy — 1355 N. High street.

JOHN FERGUSON CUNNINGHAM,  
Assistant in Horticulture and Forestry — 1462 Worthington street.

CHARLES BYRON FREDERICKS,  
Assistant in Veterinary Medicine — Veterinary Hospital.

(1) HARRY WALDO KIEHN,  
Assistant in Mathematics — 221 W. Eleventh avenue.

(3) RAYMOND MOLYNEAUX HUGHES,  
Assistant in Clay-working and Ceramics.

MURRAY P. BRUSH,  
Assistant in Romance Languages — 532 E. Broad street.

FRANK RUHLEN,  
Assistant in Agriculture — 1568 Neil avenue.

LUCY ALLEN,  
Assistant in Library — 1490 Neil avenue.

(4) SARAH STUBBS JAMES,  
Assistant in Domestic Economy.

ALBERT N. BLEININGER,  
Laboratory Assistant in Ceramics — North Dormitory.

NEWTON HENRY BROWN,  
Assistant in Physics — 1609 N. High street.

GEORGE WASHINGTON RIGHTMIRE,  
Assistant in American History — 1404 Summit street.

EDWARD EVERETT SOMERMEIER,  
Assistant in Metallurgy and Meteorology — 113 W. Frambes avenue.

DON CARLOS HUDDLESON,  
Assistant in Gymnasium — 249 W. Lane avenue.

BURT BIDWELL HERRICK,  
Assistant in Cheese-making.

ELISHA SMITH,  
Assistant in Cheese-making.

CORNELIA PORTER SOUTHER,  
Assistant in Domestic Economy — The Dennison.

FREDERICK WILLIAM SMYSER,  
Assistant in Industrial Arts and Forge Master — Seventh avenue.

<sup>1</sup> Absent on leave.

<sup>2</sup> Resigned December 1898.

<sup>3</sup> Resigned September 1898.

<sup>4</sup> Resigned February 1899.

JOSEPH HENRY VOSSKUEHLER,  
Assistant in Drawing.

CLAUDE B. GUITTARD,  
Assistant in Library — 80 McMillen avenue.

OSCAR ERF,  
Student Assistant in Butter-making.

MARION IMES,  
Student Assistant in Dairying.

ROBERT FISCHER,  
Fellow and Laboratory Assistant in Chemistry — 810 Franklin avenue.

HORACE JUDD,  
Fellow and Laboratory Assistant in Mechanical Engineering — 22 W. Woodruff avenue.

FRANK ORVILLE CLEMENTS,  
Fellow and Laboratory Assistant in Chemistry — 252 W. Eighth avenue.

MELVIN DURBACH,  
Fellow in Anatomy and Physiology — 236 W. Eighth avenue.

FREDERICK T. HALE,  
Fellow and Laboratory Assistant in Mechanical Engineering — 239 W. Tenth avenue.

JOHN BERNARD PARKER,  
Fellow and Assistant in Rhetoric — 43 W. Woodruff avenue.

FRED ALAN FISH,  
Fellow and Laboratory Assistant in Electrical Engineering — 239 W. Eleventh avenue.

EMMA LEANNA BALL,  
Fellow and Assistant in Mathematics — 225 King avenue.

ALBERT HEBER MCINTYRE,  
Fellow in Industrial Arts — 240 W. Eighth avenue.

SAMUEL E. RASOR,  
Fellow and Assistant in Mathematics — 22 W. Woodruff avenue.

OLIVER V. BRUMLEY,  
Fellow and Assistant in Veterinary Medicine.

BENJAMIN MAAG,  
Emerson McMillin Fellow in Astronomy — 164 W. Ninth avenue.

EDWARD L. FULLMER,  
Fellow in Botany — 420 W. Eighth avenue.

W. C. MILLS,  
Curator of the Archæological Collection — 91 W. Frambes avenue.



## EXECUTIVE DEPARTMENT

1898-'99

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ALEXIS COPE.....	Secretary Board of Trustees and Bursar
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JEAN BLACKFORD.....	Executive Clerk
EDITH D. COCKINS.....	Registrar
C. E. BARNET.....	Accountant
CHARLES LOW .....	Assistant Engineer
THOMAS BOUDE.....	First Fireman
W. E. CASE.....	Second Fireman
JAMES KELLEY.....	Lawnkeeper
HENRY MARTZ .....	Watchman

### JANITORS

ARTHUR CHANTLER.....	University Hall
HENRY CHANTLER.....	Orton Hall
GEO. W. GOODSPEED .....	Chemical Hall
JOHN H. BROWN.....	Hayes Hall
GEO. DENNY .....	Horticultural Hall and Veterinary Hospital
D. D. GEREN.....	Gymnasium
WILLIAM WHITESTINE.....	Biological Hall
M. N. COOK.....	Townshend Hall

### STATE GEOLOGIST.

PROFESSOR EDWARD ORTON.

### STATE SEALER OF WEIGHTS AND MEASURES.

THE PROFESSOR OF PHYSICS, *Ex-Officio*.

COLUMBUS, O., June 30, 1899.

HIS EXCELLENCY, HON. ASA S. BUSHNELL, Governor of Ohio:

DEAR SIR: I have the honor to transmit herewith the twenty-ninth annual report of the Board of Trustees, Ohio State University.

Very respectfully,

Your obedient servant,

ALEXIS COPE, *Secretary.*





# REPORT OF THE BOARD OF TRUSTEES

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OFFICE OF THE BOARD OF TRUSTEES,

OHIO STATE UNIVERSITY,

COLUMBUS, OHIO, *September 1, 1899.*

*Hon. Asa S. Bushnell, Governor of Ohio:*

*Sir:*—In complinace with law the Board of Trustees respectfully submits the twenty-ninth annual report of the Ohio State University, it being for the year ending June 30, 1899.

## ENDOWMENT.

The part of the irreducible debt of the state which forms the endowment of the University was, at the date of the last annual report, June 30, 1898, \$550,469.27, on which the annual interest was \$33,-028.15.

Under operations of the act of the General Assembly of March 14, 1889, entitled "an act to quiet title to unpatented lands in the Virginia Military District of Ohio," the following sums were added thereto: Sept. 10, 1898, \$38.47; Nov. 4, 1898, \$0.90; Dec. 9, 1898, \$46.55; Feb. 1, 1899, \$109.23; March 1, 1899, \$750.47; March 8, 1899, \$213; April 10, 1899, \$578; May 4, 1899, \$250; June 14, 1899, \$161.77; total for the year \$2,148.39, making the endowment fund June 30, 1899, \$552,-617.66, on which the annual interest is \$33,157.06.

## THE WILLIAM J. BRYAN PRIZE.

In April, 1898, the Hon. William J. Bryan, in a letter addressed to the President of the University, made a proposition "to give to the University, if agreeable to the trustees, \$250, the same to be invested and the proceeds used as a prize for the best essay discussing the principles which underlie our form of government."

The Trustees promptly expressed their willingness to receive such gift and their appreciation thereof, and Mr. Bryan a few weeks later forwarded a draft for the amount.

On July 20, 1898, in pursuance of the provisions of Section 4105-15 of the Revised Statutes of Ohio, said sum was certified into the state treasury and became a part of the irreducible debt of the state.



The prize during the past year not having been awarded, the interest on the sum to June 30, 1899, will, under the operation of Section 4105-15, above quoted, be added to the principal, which will make the sum June 30, 1899, \$264.40, upon which the annual interest is \$15.86.

### RECEIPTS AND DISBURSEMENTS.

#### RECEIPTS.

Interest on endowment.....	\$33,064 84
State levy .....	176,058 15
Sale of refunding bonds.....	10,797 75
Appropriation act of Congress, 1890.....	24,000 00
Students' fees .....	28,007 45
Store room cards.....	2,050 00
Sales store room supplies.....	224 00
Rents .....	1,142 50
Cash donations department economics.....	375 00
Emerson McMillen Fellowship in Astronomy.....	300 00
N. B. M. A. Scholarship.....	250 00
Overpayment of interest returned.....	562 50
Sale and exchange books, College of Law.....	309 00
Virginia Military Lands.....	226 62
Sale Sup. Department Ceramics.....	115 83
Miscellaneous receipts .....	89 42
	<hr/>
	\$277,573 06

#### DISBURSEMENTS.

Salaries .....	\$145,909 12
Expenses of trustees.....	712 70
Repairs .....	8,697 40
Fuel and light .....	8,570 28
Library .....	6,392 64
Printing and advertising.....	2,328 70
Virginia Military lands.....	1,038 99
Roads and grounds .....	2,591 22
Bonds and interest .....	53,150 00
Apparatus .....	20,718 50
Laboratory supplies .....	6,605 59
Equipment Townshend Hall .....	1,041 79
Townshend hall .....	528 70
Water rents .....	1,141 29
Attorney fees Page will case.....	1,000 00
Postage .....	521 28
Telephone service .....	394 68
Telegrams .....	28 96
Agricultural Students' Union.....	44 22
Rent fire alarm boxes, etc.....	175 68
Insurance .....	198 99
Commencement expenses .....	299 45
Oils .....	381 00
General supplies, cleaning materials, etc.....	182 93
Furniture .....	154 40
Freight and cartage .....	36 77
Expenses visiting high schools.....	132 06

Messenger service .....	307 69	
Blank books and stationery.....	337 13	
Athletic field .....	151 74	
Fees refunded to soldiers Spanish war.....	98 25	
Collections of Odonata.....	300 00	
Collection of Birds (Davie).....	400 00	
Archæological collection (Moorehead).....	300 00	
Tools and machinery .....	1,634 13	
Live stock .....	175 25	
Feed .....	762 06	
Seeds and plants .....	114 53	
Incidentals .....	431 54	
Overdraft year ending June 30, 1898.....	495 36	
		<hr/> \$268,485 02
Balance in hands of treasurer June 30, 1899.....		\$9,088 04

## NEW MORRILL FUND.

The following statement shows the receipts and disbursements for the year ending June 30, 1899, of appropriations made by act of Congress, approved August 30, 1890, and known as the "New Morrill Fund," and which are included in the preceding statement of the aggregate receipts and disbursements.

## RECEIPTS.

Balance in treasury June 30, 1898.....	\$267 42	
Appropriation year ending June 30, 1899.....	24,000 00	
		<hr/> \$24,267 42

## DISBURSEMENTS.

For instruction and facilities in agriculture.....	\$5,218 51	
For instruction and facilities in mechanic arts .....	8,062 83	
For instruction and facilities in English language .....	754 29	
For instruction and facilities in mathematical science...	1,555 71	
For instruction and facilities in nat'l or phys. science....	7,976 33	
For instruction and facilities in economic science.....	662 44	
		<hr/> \$24,230 11
Balance June 30, 1899.....		\$37 31

The law of Congress requires a detailed annual report of the receipts and disbursements of this fund, which report for the year ending June 30, 1899, is appended to the treasurer's report filed herewith.

## VIRGINIA MILITARY LANDS.

To June 30, 1898, the total receipts from the sale of the Virginia Military Lands granted to the University by act of the general assembly of March 26, 1872, were .....	\$65,168 66	
The receipts from this source during the year ending June 30, 1899, were .....	226 62	
		<hr/> \$65,395 28



The expenses incident to the survey and disposition of such lands to June 30, 1898, were.....	22,960 10	
Such expenses for the year ending June 30, 1899, were..	1,038 99	
		<u>\$23,999 09</u>
Leaving net cash receipts to June 30, 1898.....		41,396 19
Of this sum there has been paid to the credit of the endowment fund .....	13,665 14	
And expended for building and maintaining residences for the professors under act of April 17, 1882.....	20,052 51	
		<u>\$33,717 65</u>
Leaving balance June 30, 1899.....		\$7,678 54

The receipts and disbursements of this fund for the year ending June 30, 1899, are included in the preceding general account of the aggregate receipts and disbursements.

#### ADDITIONS TO ENDOWMENT.

For the period ending June 30, 1898, the additions to the endowment fund under the operations of an act of the general assembly of March 14, 1889, entitled "an act to quiet title to unpatented lands in the Virginia Military District of Ohio," the act of April 21, 1893, entitled "an act for the relief of certain persons who formerly held lands in the Virginia Military District of Ohio," an act amendatory of said last mentioned act passed May 21, 1894, and an act passed April 26, 1898, entitled "an act making appropriations for the relief of certain persons who formerly held lands in the Virginia Military District of Ohio," were \$12,627.83.

During the year ending June 30, 1899, under the operations of said first mentioned act, there was added to said endowment fund the sum of \$2,148.39. Making total additions to the endowment fund under said acts, \$14,776.22.

The suits mentioned in former reports which grew out of a contract made with the late Mr. Sam Kendrick in 1882, for the discovery of undiscovered lands in the Virginia Military District of Ohio, are still undisposed of.

One of them, the case of N. W. Evans against the Board of Trustees, which was a suit for \$5,000 attorney fees for services claimed to have been performed under direction of said Kendrick, was tried in January, 1898, and was decided in favor of the University.

The plaintiff has, however, carried the case to the Circuit Court of Franklin county, where it is still pending.

The other suit, the case of Sam Kendrick against the Board of Trustees, a suit for the sum of \$133,000, with interest from June 19, 1889, has never been tried. After Mr. Kendrick's death in December, 1892, the suit was revived in the name of his administrator and is still pending in the Common Pleas Court of Franklin county.

## BONDED INDEBTEDNESS.

The bonded indebtedness of the University June 30, 1898, was \$380,000, due and payable as follows: \$25,000 Dec. 1, 1898; \$10,000 June 1, 1899; \$55,000 Dec. 1, 1899; \$10,000 June 1, 1900; \$55,000 Dec. 1, 1900; \$10,000 June 1, 1901; \$55,000 Dec. 1, 1901; \$10,000 June 1, 1902; \$55,000 Dec. 1, 1902; \$10,000 June 1, 1903; \$55,000 Dec. 1, 1903; \$10,000 June 1, 1904; \$10,000 Dec. 1, 1904; \$10,000 June 1, 1905.

Of this indebtedness \$70,000 bore interest at six per cent. and \$310,000 at four and one-half per cent. per annum, payable semi-annually. The \$25,000 of said indebtedness falling due Dec. 1, 1898, was paid when due and the bonds taken up and cancelled.

Under and pursuant to the provisions of an act of the general assembly entitled "an act to authorize the trustees of the Ohio State University to refund and extend the time of payment of portions of the bonded indebtedness of said institution as the same becomes due," passed April 23, 1898, the \$10,000 of 6 per cent. certificates of indebtedness falling due June 1, 1899, were taken up by an issue of the same amount of four and one-half per cent. bonds falling due, \$5,000 Dec. 1, 1904, and \$5,000 Dec. 1, 1905. Said bonds brought a premium of \$797.75, which reduces the annual interest thereon to about three per cent.

Said reduction of principal and interest left the bonded indebtedness June 30, 1899, \$355,000, of which \$295,000 bears interest at four and one-half per cent. and \$60,000 at six per cent. per annum, payable semi-annually.

Said remaining indebtedness falls due as follows: \$55,000 Dec. 1, 1899; \$10,000 June 1, 1900; \$55,000 Dec. 1, 1900; \$10,000 June 1, 1901; \$55,000 Dec. 1, 1901; \$10,000 June 1, 1902; \$55,000 Dec. 1, 1902; \$10,000 June 1, 1903; \$55,000 Dec. 1, 1903; \$10,000 June 1, 1904; \$15,000 Dec. 1, 1904; \$10,000 June 1, 1905; \$5,000 Dec. 1, 1905.

## THE PAGE WILL.

In former reports mention has been made of the will of the late Hon. Henry F. Page, of Circleville, in which he devised certain farming lands in Ohio and Illinois (near 1,000 acres in each state) estimated to be worth \$150,000, to the Ohio State University, subject to life estates therein to his widow, Mrs. Charlotte G. Page, and his only child, Isabel Page.

The will provided that in the event of the testator's death within a year, and the consequent failure of the devise to the University, the estate, after the death of the widow and daughter, should go to certain children of his two brothers. By a subsequent provision of the will the testator requested his daughter Isabel to ratify and confirm the devise to the University and provided in case she complied with such re-



quest that the devise to the said children of his brother should thereby be revoked. Mr. Page died within a year from the making of the will and his daughter Isabel formally ratified and confirmed the devise to the University and by deed duly executed, conveyed to it the lands so devised.

Isabel subsequently died and suit was filed in both Ohio and Illinois to set aside the deed of ratification and confirmation.

The case in Ohio was carried to the Supreme Court and decided in favor of the University, the court holding that the deed of ratification, whether valid or invalid, revoked the devise to the children of testator's brothers, and that they have no claim under the will.

After said decision of the Supreme Court the widow of the testator, Mrs. Charlotte G. Page, sent a communication to the trustees, expressing a desire to release to the University any interest she might have in the lands mentioned in the devise, over and above the life estate provided for her in said will, and afterwards duly executed and delivered to the board of trustees her quit claim deed for such interest, which deed was duly recorded in the counties in which the lands lie.

Thereupon the trustees formally released to Mrs. Page, during her life, all claim of the University to one-half of the income of said lands from the date of her daughter Isabel's death, and also formally requested the executors of Henry F. Page to pay to Mrs. Page the sum of \$1,732.26, the amount found in their hands on final settlement of his estate, for the purpose of providing a monument for her deceased husband.

Mrs. Page died shortly after the execution of the instrument before mentioned, and by the terms of said will the title to the lands and the income thereof vested in the University.

Notwithstanding the decision of the Supreme Court above mentioned, the collateral kindred of Mr. Page still assert a claim to the lands and a portion of the income thereof, and the trustees under the will filed a suit in the Common Pleas Court of Pickaway county setting up the conflicting claims of the parties in interest and asking the court's decision thereon. Said suit is still pending.

In the meantime, Mr. John G. Haas, one of the trustees under the will, has been appointed receiver and is managing the lands and collecting the rents and holding them until the determination of such suit.

#### CAMPUS.

During the fiscal year just closed the sum of \$2,591.22 was expended in caring for the campus — \$1,180 having been used in constructing an artificial stone walk from the armory and gymnasium to the main building, or University Hall, and the balance in grading about the newer buildings and in keeping the grounds, drives and walks in order.

To repeat what was said in the last annual report: "Much remains to be done to carry out the plans of the landscape gardner and put the grounds in symmetrical shape." "A number of additional walks and driveways are needed."

"The plans contemplate a botanical garden and arbortem, and it seems practicable to soon begin this work. It will take time and a considerable outlay, but the comparatively small sums which have been and will continue to be expended from year to year, will soon make the University grounds among the most attractive in the State."

"The trustees again express the hope that some public-spirited citizen will provide the funds for a gateway arch at one of the entrances to the University grounds, and in so doing build for himself an enduring monument."

#### THE LIBRARY.

The expenditures for the library for the year ending June 30, 1899, exclusive of the salaries of the librarian and assistants, were \$6,392.64. Of this sum \$804.78 was paid for furniture and current supplies; \$720.70 was paid for binding and the remainder, \$4,867.16, was expended in the purchase of books and periodicals.

The report of the librarian shows that the whole number of accessions during the year was 7,660. Of this number 2,643 were purchased and 5,017 donated. Of the books donated, over 3,000 were public documents secured through the continued interest of President McKinley in the growth and progress of the University.

A large number came through the efforts of the University Library Association, and many were received through the liberality of private donors.

Hon. Hylas Sabine presented the library with some 200 volumes, some of which had once belonged to Daniel Webster and bear his autograph. Due acknowledgement for these gifts is made elsewhere in this report.

The number of books in the library June 30, 1898, was 23,339; the number of pamphlets approximately 7,000.

The number of books June 30, 1899, was 30,999, and of pamphlets about 7,000—the addition to the number of pamphlets about equalling those bound into volumes. The report of the librarian is so important that it is filed herewith.

#### COLLEGE OF LAW.

When the School of Law was established in 1890 it was with the understanding on the part of the Board of Trustees that it should be self-supporting, and until the year 1894 its professors and teachers received no other compensation than the small sum received as fees from the students.



Mr. Emerson McMillin generously gave \$3,000 for the purchase of books and the late Hon. Henry C. Noble by his will bequeathed his valuable law library. In 1894 the legislature, unasked by the Trustees, passed an act authorizing an appropriation from the state levy of a sum not exceeding \$5,000 annually for its support and maintenance. The Trustees interpreting such action by the legislature as a desire on its part that a sum additional to the fees of its students should be expended for its benefit, annually, until 1897, appropriated the sum of \$1,500 in addition to the fees, which sum was expended towards meeting the salaries of teachers and lecturers.

For the year ending June 30, 1898, this appropriation was omitted, and the fees received from the students paid all expenses of the college and left a surplus of \$700.

During the year just closed the only support was from the fees of its students, and the excee of receipts over expenditures was \$1,707.

The college has constantly grown in popularity and usefulness and at the same time has maintained so high a standard of work that its graduates easily hold first place in the examinations before the Supreme Court.

During the past year the faculty, with the approval of the trustees, has materially raised the requirements for admission, to take effect in the year 1901.

#### DEGREES.

At the commencement in June, 1899, on the recommendation of the faculty, the following degrees were conferred:

#### ADVANCED DEGREES.

##### MASTER OF ARTS.

Frank Brown, A. B. (Macalester College) Columbus; Edward Duncan Meek, B. A., Glencoe; Willam Rufus Kersey, B. A. (Earlham College) Columbus.

##### MASTER OF SCIENCE.

Frank Orville Clements, M. A. (Otterbein University) Westerville; Horace Judd, M. E., Columbus; Benjamin Franklin Maag, B. Ph. (Wooster University) Mt. Eaton.

##### MASTER OF SCIENCE (In Horticulture and Forestry).

John Ferguson Cunningham, B. Sc. (H. & F.), Columbus.

#### FIRST DEGREES.

##### COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE

##### BACHELOR OF SCIENCE (In Agriculture).

Arthur Grant Abbott, Medina; Oscar Erf, Monroeville; Clarence Alfred Clawson, Okeana; Marion Imes, Bashan; Frederick Symmes Johnston, Ashtabula.

## BACHELOR OF SCIENCE (In Horticulture and Forestry).

Leonard C. Warden, Avon.

## COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE.

## BACHELOR OF ARTS.

James Herbert Brandt, Greencastle; Walter Converse, Plain City; Paul Revere Good, Westerville; Robert James King, Zanesville; Susan Esther Rice, Columbus; Frank Persons Rogers, Columbus; Ralph Oliver Spencer, Columbus; Charles Leslie Stimson, Columbus.

## BACHELOR OF PHILOSOPHY (Latin Course).

Harrison William Bock, Canton; Dorothea Frances Canfield, Columbus; Lillian Stuart Huffman, Columbus; Burch Delaplaine Huggins, Hillsboro; David Thatcher Keating, Columbus; Dallas Gypsi Lisle, Columbus; Leslie Mac Lisle, Columbus; Carey Ligouri Logsdon, Columbus; Wilber Edwin Mann, Morrisville; William Waddle Richardson, Massillon; Simeon Andrew Roach, Chillicothe; Philip Emerson Ward, Willoughby; John Wesley Young, Columbus.

## BACHELOR OF PHILOSOPHY (English Course).

Elizabeth Grant Baldwin, Columbus; Harry Ernest Clum, Westerville; Ida Mae Coursault, Columbus; Thomas Herbert Dickinson, Columbus; Francis William Gruen, Cincinnati; Charles Pearl Harris, West Liberty; Frederic Roland Hoover, Columbus; John Wesley Lehman, Canal Winchester; Herbert C. Mundhenk, Brookville; Gertrude Belle Nichol, Columbus; Maud Raymond, Columbus; George A. Robbins, Columbus; Mary Fannie Rockwell, Columbus; William Ralph Sprague, Columbus; Carl Eckert Steeb, Medina; Edwin Slusser Wertz, Dalton; Anna Ernestine Williams, Jackson; Wood Frank Worcester, Columbus.

## BACHELOR OF SCIENCE.

Ruth Mundhenk, Dayton; Henry Lewis Rietz, Gilmore.

## COLLEGE OF ENGINEERING.

## CIVIL ENGINEER.

Clarence Julian Clarke, Wilberforce; Levi Rawson, Lisbon; Carlton Elijah Stone, Gallipolis; Leigh Goodrich Curtis, Hamilton; Louis Philip Wirthwein, Columbus; David William Smith, Ashland; Clarence Milton Sprague, Sumnerford.

## MECHANICAL ENGINEER (In Electrical Engineering).

John H. Hertner, Dayton; Marcellus Staley, Dayton; John Theodore Frankenberg, Columbus; Joseph Farist Green, Dayton; Jesse Joseph Linebaugh, Pleasant Corners; Daniel Karl Starbuck, Barnesville; John Martin Schreiber, Ironton.

## MECHANICAL ENGINEER.

Warren Atkinson, Greenville, S. C.; Robert Jewett Pabodie, Wyoming; Harry Goldsmith Bygate, Steubenville; Herman Gamper, Columbus; Arthur Huntington, Columbus; Kerson Nurian, Philipopolis, Bulgaria.

## ENGINEER OF MINES.

John Wallace Bischoff, Elk Garden, W. Va.; James Francis Brophy, Frostburg, Md.; Charles Hill Tufts, Maineville.

## BACHELOR OF SCIENCE (In Chemistry).

Samuel Vernon Peppel, Leetonia.

## COLLEGE OF LAW.

## BACHELOR OF LAWS.

Edward Harrison Allen, B. A. (Ohio Wesleyan University), Lena; John Gustave Austin, Sparta; Harry Graham Bockius, Ph. B. (Yale University), Canton; Charles Grosvenor Bond, Columbus; Charles Reed Brewer, Bowling Green; Alexander B. Clark, A. B. (Yale University), Canton; John Randolph Dally, Centerburg; George Edwin Davidson, East Liverpool; Warren Noble Groff, B. A., Tiffin; Reed Haskell Game, B. Ph., Canal Winchester; Francis William Gruen, Cincinnati; Arlington Coryville Harvey, M. A., Columbus; Irwin G. Jennings, Zanesville; William Emil Krupp, Uhrichsville; Walter Edwin Orton, Williamstown, Mass.; Edward Livingstone Pease, B. A., Columbus; Hugo Nathan Schlesinger, Xenia; Warren Lee Smith, Columbus; Charles Franklin Sprague, B. A., Wapakoneta; Thomas A. Stiger, Bucyrus; Andrew Lee Roy Wildermuth, Columbus.

## THE FACULTY.

The most notable change in the faculty during the past year was the retirement of President James H. Canfield, to accept the position of Librarian of Columbia University, New York.

On the 9th day of May, 1899, President Canfield tendered his resignation, to take effect June 30, 1899, and the same was accepted, and on the 13th day of June, following, William Oxley Thompson, D. D., was elected as his successor.

Other less notable changes in the faculty are noted in the report of the President and in the annual catalogue for the year ending June 30, 1899, which are filed herewith and made a part of this report.

The number of professors in the academic faculty is 30; associate professors, 9; assistant professors, 14; assistants, 28; lecturers, 1; fellow and laboratory assistants, 13; librarians, 1; assistant librarians, 5; curators, 1. Their positions and compensation and that of the other employes of the university, are stated elsewhere in this report.

The law faculty consists of the Dean, four professors and three lecturers, whose compensation is also given in another part of this report.

## NUMBER OF STUDENTS.

The enrollment of students during the year was as follows:



COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE AND COLLEGE OF LAW.

First semester, 524; second semester, 503.

OTHER COLLEGES.

Fall term, 496; winter term, 487; spring term, 410.

The whole number in attendance during the year, as shown by the catalogue, including those in attendance at the summer school, was 1,149.

The numbers in the several colleges, departments and classes, and the courses of study pursued in each, are shown in the appendix to the President's report and in the catalogue filed herewith.

GIFTS DURING THE YEAR.

Besides those especially mentioned in the preceding pages of this report, the University has received by gift the following additions to its museums and collections:

DEPARTMENT OF ECONOMICS AND SOCIOLOGY.

Business men of Columbus for Department Equipment, \$1,225.

M. A. Hanna, Carroll D. Wright, Emerson McMillin, J. B. Breese, Columbus Dispatch, Government Bureau, etc., books.

Ira A. Richards, R. Hirsch, H. Slesinger, M. Munsey and others, coins.

J. Seligmann & Co., Columbus Bank Note Co., Franklin Lee Printing Co., Security Bank Note Co., Alexis Cope, American Express Co. Columbus Street Railway Co., Deshler National Bank, Sessions & Co., New York Life Insurance Co., and others, business paper.

ELECTRICAL DEPARTMENT.

Western Electric Co., Van De Poole dynamo, historical.

Westinghouse Electric and Manufacturing Co., collection of photographs.

General Electric Co., collection of photographs.

The Akron Electrical Mfg Co., collection of photographs.

H. B. Brooks, Edison ammeter, historical.

DEPARTMENT OF HISTORY AND POLITICAL SCIENCE.

Through the interest of President McKinley, a complete set of the "Public Documents of the United States," embracing between three and four thousand volumes.

DEPARTMENT OF HORTICULTURE AND FORESTRY.

The Deming Co., Salem, O., one Kerosene Knapsack Sprayer.

The Robert Douglas Co., Waukegan, Ill., collection of 25 specimens of ornamental evergreens.

Prof. S. B. Green, Department of Horticulture, University of Minnesota, a collection of about 30 specimens of ornamental trees and shrubs.

## DEPARTMENT OF INDUSTRIAL ARTS.

From the Morse Twist Drill and Machine Co.:

One  $\frac{3}{4}$  in. Hollow Drill.

One  $\frac{1}{2}$  in. Straightway Drill (straight shank).

One  $\frac{5}{8}$  in. Straightway Drill (taper shank).

One 1 in. Expanding Shell Reamer.

From the Hampden Corundum Wheel Co., one small emery wheel.

From the Fitchburgh Machine Co., The Niles Tool Works, Brown & Sharpe, Warner & Swasey, The Pond Machine Co., The American Tool Works Co., pictures of machine tools for the walls of the shops.

From Hayden's Foundry, a sample of cast iron grafting.

Nicholson File Works, a book of files.

From different Companies, drawings and tracings.

## DEPARTMENT OF ZOOLOGY AND ENTOMOLOGY.

S. H. Scudder, Lawrence Bruner, J. B. Smith, M. V. Slingerland, F. M. Webster, H. Osborn, E. P. Felt, U. S. Department of Agriculture and Otto Luggger, entomological papers.

Petch & Sutton, two sharks.

Professor Bownocker, Pacific Coast starfish.

Sells Bros., tiger, deer, lion.

E. E. Mastermann, skulls and small mammals.

W. C. Munsey, Porto Rican centipede.

Sells Bros., two cockatoos.

## DEPARTMENT OF MINING ENGINEERING.

T. E. Hughes, of Philadelphia, Pa., set of Reports of the Pennsylvania Geological Survey.

## ESTIMATES.

The following are the estimates for the year ending June 30, 1900:

Salaries .....	\$151,055 00
Bonds and interest.....	41,875 00
Expenses of trustees.....	600 00
Fuel and light .....	8,000 00
Power and light plant, repairs, etc.....	4,000 00
General repairs .....	5,000 00
Printing and advertising.....	2,500 00
Roads and grounds .....	2,400 00
Virginia Military lands.....	2,000 00
Water rents .....	1,400 00
Library ... ..	6,000 00
Store room supplies .....	5,000 00
Department apparatus and supplies.....	25,000 00
Incidentals .....	4,000 00
Total .....	\$258,530 00

Which will be amply met by the anticipated income of the University.

The reports of the President, the Librarian and the Treasurer for the year ending June 30, 1899, are filed herewith and made a part of this report.

Respectfully submitted,

ALEXIS COPE,  
*Secretary.*



## REPORT OF THE PRESIDENT

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*To the President and Members of the Board of Trustees:*

*Gentlemen:*—The University year just closing has been marked by unusually quiet and steady work in all departments. The completion of our buildings, and the restoration of the campus to its normal condition, has brought relief to the nerves of both the Faculty and the students; and the swing and stride of University life has been practically unbroken during the year. Not for some time has all work been so efficient and have all results been so satisfactory.

In spite of the fact that a large proportion of those who would ordinarily enter this institution at the opening of the University year, entered the service of the United States instead, that most of our students who enlisted in the Spanish-American war did not return in time to re-enter the University, that the last Summer School was attended by the smallest number known since this school was instituted, and that again pressure was brought to bear upon the State High Schools in the way of increased demands (in both the quantity and quality of their work) and by more rigid adherence to University requirements, the enrollment for the academic year shows a very gratifying increase—about ten per cent. over that of last year, in the regular University work. The hold of the University upon the confidence and good will of the state is shown by the fact that these students come from every rank in society—as appears by the very interesting page of information as to the occupations of the parents, to be found near the close of the catalogue, and as appears also by the fact that only three counties in Ohio are now without representation.

### DEGREES CONFERRED.

At the last commencement the following degrees were granted:

Master of Arts, three; Master of Science, four; Bachelor of Science, nine; Bachelor of Arts, eight; Bachelor of Philosophy, thirty-one; Civil Engineer, seven; Mechanical Engineer (in Electrical Engineering), seven; Mechanical Engineer, six; Engineer of Mines, three; Bachelor of Laws, twenty-one; total, ninety-nine.

## CHANGES IN THE FACULTY.

The changes in the instructional force during the year have been confined, fortunately, to those known as minor instructors. Assistant Director of Ceramics, Raymond M. Hughes, was called to an independent position at Miami University almost at the opening of the year. At the middle of the year Assistant Charles C. Sleffel received and accepted a very flattering call to Columbia University, New York City; and at the close of the year Assistant Charles W. Weick transferred to the same institution. Assistant N. H. Brown withdrew at the close of the year to accept a call to the Chair of Mechanical and Electrical Engineering at Delaware College, Newark, Delaware. Because of the return of the gentlemen during whose leave of absence they were serving, Assistant Professor Edward M. Van Harlingen and Assistant Murray P. Brush, do not return next year. The latter has received a call to Johns Hopkins University. Assistant Frederick W. Smyser withdrew just after our last commencement to accept a more attractive position in the east.

There have been the usual changes in the Fellows and Laboratory Assistants.

The appointments for the coming year include Charles Smith Prosser, M. S., as Associate Professor of Historical Geology; William Edwards Henderson, as Assistant Professor of Analytical Chemistry; Edwin D. Shurter, Assistant Professor of Rhetoric and Public Speaking; George H. McKnight, as Assistant Professor of Rhetoric and English Language; John Bell Sanborn, as Assistant in American History and Political Science; Silas Martin as Assistant in Drawing, and the usual appointments of Fellows and Laboratory Assistants.

By advancement in title you recognized the faithful and acceptable services of George W. McCord, made Associate Professor of Mathematics; Charles W. Mesloh, made Assistant Professor of Germanic Languages; John A. Bownocker, made Associate Professor of Inorganic Geology; Charles A. Bruce, made Assistant Professor of Romance Languages; Charles L. Arnold, made Assistant Professor of Mathematics; Karl D. Swartzel, made Assistant Professor of Mathematics; Charles H. Schaffner, made Assistant Professor of Botany; Fred A. Fish, advanced from the position of Fellow and Laboratory Assistant in Electrical Engineering to the position of Assistant in the same department; and Oliver V. Brumley, advanced from the position of Laboratory Assistant in Veterinary Medicine to the position of Assistant in the same department. Assistant Professor J. R. Taylor has been transferred to the Department of English Literature, and thus given full time for the work for which he seems particularly prepared.

## THE PRESIDENT-ELECT.

The most noteworthy appointment made by the Board within the year is that of Rev. William Oxley Thompson, D. D., as President of the University. President Thompson comes to this institution admirably fitted for the responsibilities of the position. He is an Ohioan by birth and by education. His broad and intelligent sympathy with all the educational work of the state has put him in close touch with the best and most advanced teachers of the commonwealth. He has breadth of vision, a willingness to co-operate with others, good common sense (the most uncommon of the senses), and above all he has a distinct Christian character, combined with moral courage and a generous and intense nature.

Taking up his work with the hearty co-operation of the Board of Trustees, and with a hold upon the confidence of the best citizens of the State already assured, there can be no question as to the success of his administration.

## UNIVERSITY ATHLETICS.

Although the Athletic Board has been organized little more than a year, yet enough has been accomplished to prove that its conception was a step in the right direction. Under its administration not only have the financial affairs of the Association been conducted in a business-like way, but the general interest in honest college sports among the student body has been greatly increased. Believing that the benefit to be derived from athletic games comes to those who participate rather than to those who simply look on, the Board has in every way encouraged "home" contests, as inter-class games, inter-fraternity games, etc.

The most serious obstacles with which we have had to contend is the lack of finances for carrying out the work. The legitimate expenses which any Athletic Association must meet in order to train and equip its teams for inter-collegiate contests, can only be understood by those who have been connected with such Associations. As a result, with the exception of a few of the larger Universities, where the interest in athletics is intense, Athletic Associations have a constant struggle to keep out of debt. In our own efforts to do this we are greatly indebted to the young women of the University, who, under the leadership of Miss Bowman and Miss Elliott, have kindly given very successful entertainments for the benefit of the Association. But here is a field in which our Alumni ought to work strenuously, and in which they could work very helpfully.

Finally, it is idle to suppose that the local board can meet its necessary expenses, and in addition improve the athletic field to any great extent. We are sadly in need of a grand-stand, of bleachers, and of



a suitable out-door running track. Because of the lack of the latter, it has not been possible for us to hold a track athletic meet this year, although it is exceedingly desirable to encourage this sort of physical exercise. I sincerely hope that the Alumni will raise sufficient funds for the construction of a suitable track at least. Or the Trustees might construct a track if the Alumni will put up a grand-stand and bleachers. There ought to be some steps taken at once to bring about efficient co-operation between these two bodies.

#### MUSIC IN THE UNIVERSITY.

During the entire course of my administration here, I have strongly desired to advance the musical interests of the University. It will be some time, probably, before definite and higher instruction in this subject can be given by this institution; with usual and proper credits for the same — such a course as is known in Harvard or in the University of Michigan. The fact that most of the students likely to be interested in musical study are residents of Columbus, and have certain *local* advantages in the way of proper instruction, might operate against the success of such University electives; but I believe there is a quite well defined demand for such a department, and it is certainly time that the Trustees were beginning to consider this subject.

Something might be done at once in the way of appropriating a small amount of money each year for chorus training and orchestra work. We have some very good voices in the University, which combine well under training, and without doubt there are latent powers that could be developed. Under a competent instructor our students are quite capable of mastering the shorter choral works, and of presenting these to the public with entire credit to the University. Somewhat similar conditions exist as to orchestra work.

With definite recognition of this work; with a chorus meeting at four o'clock on Tuesday afternoons, and an orchestra meeting at four o'clock on Thursday afternoons — each under competent instruction; and with a good organ in the Chapel, which would be a great stimulus to musical feeling among both students and Faculty, the University would take a long step forward in this most delightful and inspiring art, and would be more than repaid by the advancement of its students in true culture, and by the enlargement and quickening of University spirit which must certainly result.

#### YOUNG WOMEN AT THE UNIVERSITY.

One crying need of our University life is some means of caring for our young women. This year there have been about sixty young women — not residents of Columbus — and the number is increasing

rapidly. These must find homes among a shifting class of boarding-house keepers, most of whom, unfortunately, have rarely had either special training for their vocation or much experience in it, and are following it simply as a means of livelihood. The number of girls coming to the University from abroad has been too small to cause much competition among these purveyors. There is little effort made to please young women at table; the parlor is not always attractive and is sometimes grudgingly granted for entertaining friends; the health of the boarders is often a matter of indifference; intelligent and sympathetic chaperonage is very rarely considered, and the general result is a body of young women straining the mental and physical powers to the utmost and with no one sufficiently interested or informed to warn them of indiscretions with regard to either health or general well-being.

Other colleges and universities have found it expedient, indeed necessary, to provide halls or dormitories for their women students. These buildings are often so crowded that applications for rooms must be made two or three years in advance. At Chicago University the five halls provided for women have been almost the only paying investment, undergraduate women, and even those doing advanced work; preferring such a home to the outside rooms.

A building which would accommodate perhaps forty women would do much to increase the popularity of the University with mothers, and with the public generally. It would make a very desirable center for much University life. It ought to bring to the University a touch of home life which is now quite lacking. Professors and their wives would gladly come into more personal touch with students if it were possible; and a hall for women might serve a double purpose, being both a social and a working home. A keen interest is now manifested in dietaries for hospitals and armies. Sanitation was never before so much appreciated. Our Department of Domestic Economy is anxious to make its work practical as well as theoretical. A woman's hall would prove a valuable storehouse from which to draw material for a thesis and advanced work, along dietetic, sanitary, hygiene and artistic lines.

Another need of our young women is rest-rooms in the various buildings. There is in University Hall one large room where the girls are supposed to have full sway. It meets the requirement as an assembly room, but it lacks some important requirements for rest. It is usually noisy, and often crowded. The one small room, fitted up in Townshend Hall at a trifling expense, is most constantly in use, and the girls are enthusiastic concerning it. Many of our women students are on the grounds from eight o'clock in the morning until four or five in the afternoon. They could do infinitely better work were they able to secure even ten minutes' absolute relaxation during the day, in some perfectly quiet place. Our sympathies go out to the shop girl who is employed all day, and philanthropy has attempted much to re-

lieve the pressure under which she works; but in contrast with shop girls, who may usually call the evening their own, our college girls go home to spend several hours more on preparation for the next day's work. It is not fair to say, "If women cannot endure University work under present and usual conditions, let them go elsewhere." Most of them can endure University work, heavy work, and do endure it, but care is at times necessary.

The disposition of the woman is different from that of the man; the nerves are usually high strung; but if these characteristics are understood and provision made accordingly, there is little reason why University life should impair the health of the average girl. And one thing necessary is for some place where she may relax utterly for a short time, and where she may be cared for if suddenly taken ill. So strong have I felt this pressure to be that I have more than once given my private office for such purposes. These two concessions certainly need not affect the routine of the University and would prove a boon to our students.

A third demand, which will become more apparent (though it will be hardly more imperative) when there is a building for women, is for some woman who may devote much of her time to the welfare of the girls, and to whom they may feel free to go for advice concerning all things.

Could these three suggestions be met, the popularity and promise of this University would be greatly enhanced and the usefulness would be wonderfully increased. Our young women must be carefully and intelligently considered in the great scheme of public education. Anything which goes to make them more womanly, and which tends to develop their physical, mental and moral natures into a harmonious whole, is worthy of consideration, by both educators and administrators.

#### THE COURSES IN DOMESTIC SCIENCE.

As to the educational value of the course in Domestic Science: As all work in this department is something of an innovation, I am particularly anxious in this, my last report, to put you in possession of the grounds upon which I have recommended its adoption. No such question can be intelligently discussed except in the light of a definite theory of education — as to the purposes which education aims to accomplish. If education be, as some conceive it, intended entirely for the knowing side of a man; if it be proper for educational purposes to regard the human being as a sort of disembodied spirit, with no body to take care of, with no children to train, with no duties to perform except to itself, and none to itself except as a purely intellectual being; then such a course is an absurdity. If again education be intended primarily for the development of the æsthetical side of human nature, to develop



its capacity to appreciate the art and the literature of Greece and Rome or of later periods; then from this point of view also such a course is entirely without a place in the program of a liberal education.

But if the deepest and most significant thing about life is action, if the function of education is to help men to do more wisely and intelligently everything they have to do, if it is to enable its possessor to apply to all the work of life the utmost intelligence possible in a being with his natural capacity, then such a course is worthy of your constant and fostering care. The fact is that education is intended to touch life at every point, to help men to do not *some* things more wisely than they otherwise could be done, but to help them to do *all* the things that they have to do with the utmost intelligence possible. If history teaches anything, it teaches this, that the rightful sovereign over every department in life is knowledge. For those who admit the truth of this conception, it would seem that scarcely anything would need to be added respecting the propriety of instruction in Domestic Science. The primary purpose of such a course is to help the students to apply the most advanced knowledge to those parts of life that center especially in the home; to enable them to eat and drink more wisely, to live more wholesomely, and to find far more in life than many of them now find; to enable them to train their children more intelligently; in a word, to take those parts of the curriculum which contain principles which may be made to bear upon the life of the home, and make them yield everything that they can yield of a helpful character in this direction.

If the question is ever again raised as to the educational value of the course in Domestic Science, that question is answered if you agree that education consists in preparation for rational life; if you agree that education consists in the possession of that kind of knowledge and development, of that kind of training, which will enable one to live wisely in the broad and full sense of those words. It is not claimed that the course in Domestic Science will enable one who takes it to do all forms of the work of life wisely and rationally. It is simply claimed that the mental training and knowledge derived from such a course will enable the possessor to do intelligently, efficiently and wisely, what otherwise would depend upon mere tact, untrained tact, and largely upon imitation — and imitation of rather poor and weak originals.

#### AMERICAN HISTORY AND POLITICAL SCIENCE.

The experience of the United States during the past year, and the political governmental problems now pressing upon the country for solution, have placed renewed emphasis on the importance of training our young men and women in history and political science — especially in the history, policy and institutions of the United States as a nation.

Masterful and helpful citizenship is not and can not be a matter of mere intuition and inheritance. International problems, national policy, state and municipal questions, cannot find successful and patriotic solution except by trained minds, both among the leaders and among the citizens at large. An increasing number of men are going from college halls into the legal profession, into state and municipal affairs, into legislative, consular and diplomatic service. The influence of the universities in the councils of the state, especially when crucial governmental questions are to be handled and settled, is constantly increasing. As the problems become more complex and the demand for their intelligent grasp and solution becomes more pressing, the universities must respond with increased resources, opportunities and energy for training in American history, international law, municipal institutions and general political science. Especially must the state universities make large provision for the profession of citizenship — a profession on which all others must depend for safety and progress. This demand is a reasonable one, and one which other universities, such as Columbia, Cornell, Wisconsin, and several more, have recognized in the establishment of Schools of History and Political Science. We are making towards the same general end, perhaps as rapidly as has been feasible to the present time; but still slowly. The establishment of the separate chair of American History and Political Science a year ago, making possible some advanced instruction in American history, has been followed by a rare piece of good fortune in obtaining from the national government an extremely valuable increase of official documentary material. The advanced courses in American History and Political Science have been taken by large numbers of students; and there is a constantly strengthening demand for still further courses; our students having found by comparison of our curriculum with those of other similar institutions that opportunities here are yet relatively deficient. There is no reason why we should lag behind. This University is at the very center of a great laboratory in political science — the complete machinery of state and municipal government is in every day operation here, while several important branches of national administration are represented in the city. It should be comparatively easy to build up here a great school of American History and Political Science, inferior to none in the country. Additional instructional force and large library resources will be needed, but they should be provided in response to a wise and reasonable demand. If Ohio is to retain her rank as the mother of statesmen and political leaders and the home of an intelligent and masterful citizenry, these demands must be met; and by no other institution so appropriately as by the State University.

## THE LIBRARY.

That the heart of a University is its library is a fact now so clearly recognized by all who are keeping abreast of progress in educational methods that it may not be argued here. What needs to be considered is the question: What is the condition of this heart? Is its action healthy? Are the beats which send the life blood throughout the whole organism firm and regular?

For six years the library of this University has been recognized as one of the regular departments of the institution — and the Librarian has had a seat and a vote in the General Faculty. Within that period its growth has been steady, but somewhat slow. At the time of its removal to its present quarters in Orton Hall (1893) the library contained about 13,000 books. At the present time it contains nearly 31,000 books, an increase during the six years of 3,000 volumes per year. Within this period Harvard's library has been increasing at the rate of 15,000 volumes per year, Columbia 18,000, University of Pennsylvania 10,000. The fact that Harvard has added five times, Columbia six times and Pennsylvania three times as many books per year to their libraries as has this University, need not interest us especially; but the relation of the growth of their libraries to the growth of the institutions as a whole is significant. This is why the slow growth of our own library is almost ominous. Certainly it has not kept pace with the growth of the University as a whole, while it should have grown more rapidly. In a University with six colleges, and soon to have a seventh, the library is not as large as it should be for one college.

The additions to this library by purchase ought to be at least 5,000 volumes a year. This would require an annual appropriation of \$12,500 for books alone.

In administration the library has always been greatly hampered. There has been a gradual development along this line, but the library has still an inadequate force. The one point which should be emphasized here is the difference between a university library and a public library. The fact that certain things are done and certain salaries paid in a public library has but slight bearing upon the conditions of a university library. Such a library is an integral part of an educational institution, its policy must be determined by the policy of the institution as a whole, and the salaries paid must be regulated with reference to the value of the services rendered from the university standpoint. The librarian of a university ought to rank in general culture, in special training and equipment, in definite purposes, in intensity of life — in all qualities and characteristics — as a full professor at the head of a department. The heads of library divisions should rank as assistant professors. Library assistants should rank as instructors. In all clerical work, thoroughly and peculiarly competent stenographers and typewriters should be employed.



A comparison instituted between what exists in our own library in this brief statement of what ought to be, will show very graphically the changes which ought to be accomplished at the earliest moment.

The equipment of the library has kept fair pace with its growth and activity, but the time has come when the problem of a library building must be faced. That a building for the library alone must soon be erected is evident to those who have kept in touch with all library conditions. However, it would be better to patiently endure crowding in our present quarters than to erect a building not entirely adapted to its purposes.

In designing a library building one of the first things to keep in mind is that it should be a building which can be enlarged. No matter what its first size, or how wisely it has been planned, the time will come when it will be necessary to add and change. In selecting a site this should be kept in mind. The ideal place on the University campus is at or near the center of the present oval — not far from where the path between Orton Hall and University Hall crosses that between Botanical Hall and Hayes Hall. It is almost the geographical center of the campus, which is exactly where a university library ought to be; and it would be a half-way stopping-place between all buildings. This is a great advantage.

The library building should be devoted entirely to the library, but the interests of a library are now so varied that the number and character of the rooms will be many. There should be at least three large reading rooms. One of these would be the general undergraduate reading room of the University. Around its wall should be shelved a library of the world's "best books." To the student, this will take the place of a private library; and will be a place to browse, a place to study and read. The second would be the general reference room in charge of the reference librarians; where would be kept all reference and reserved books, the bibliographies and the library catalogue. The third would be the special reference room, fitted with individual desks; where a certain number, and that a large number, could be given places for special study. In addition to these large rooms, there should be a number of seminary rooms, or suites — as they ought to be in sets of two or three. Then there must be a periodical room, a newspaper room, a fine art room; and provision should be made for other special needs. In addition to these public rooms are the rooms for administration. Because they have been mentioned last is no indication that they are of least importance. They should be unusually spacious, light and airy. The stack ought to be entirely outside of the main building, connected by a "neck," closed by fire proof doors.

To erect and equip such a building, after an approved pattern, would require at least \$200,000. Townshend Hall is an excellent example of what such an investment would create. Of all university build-

ings, the one which would stand for the highest expression of thought is the library building. Nothing elaborate, nothing ornate, is wanted; but that satisfactory completeness and efficiency which comes from the most intelligent plans, worked out in the best material, by most competent architects.

I have long felt that such a building, on this campus overflowing with the best of the young life of the commonwealth, ought to be distinctly and evidently a memorial to the men of the Grand Army of the Republic; whose labors and self-sacrifices made life in this and in all our sister states really worth living.

#### CONCLUSION.

In conclusion I beg leave to express again my keen appreciation of the possibilities that await this institution. Situated at the very heart of this great commonwealth, with a fast hold upon the confidence of the state, and more and more competent to minister to all the interests of its citizens — it cannot fail of a glorious future. Given its true place as the logical head of the state system of free public education, with all its energies centered upon the highest forms of service, with its affairs administered without fear or favor of any kind, and with constant recognition of the fact that the institution and its work is of greater importance than the personal interests or immediate welfare of any individual connected with it, — in ten years the Ohio State University ought to stand in the very front of the Land-Grant colleges.

Respectfully,

JAMES H. CANFIELD,

*Columbus, June 30th, 1898.*

TABLE I—THE WORK OF INSTRUCTORS, 1898-99.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory					
	First Term	Second Term	Third Term	First Term	Second Term	Third Term	First Term	Second Term	Third Term
AGRICULTURE.									
Breeds of Live Stock (8)†	3			2			31		
Principles of Breeding (9)		3			2			37	
Stock feeding and Hygiene (10)			3			2			23
Farm Equipment (11)	3			4			26		
Soils (12)		6			4			30	
Farm Crops (13)			3			2			23
Animal Mechanics and Exterior (14)	3			2			15		
Butter Making and Cheese Making (15)					8			18	
Rural Economics (16)			4						15
Dairy Farming (5)		2			2			16	
Butter Making and Cheese Making (6)					16			19	
Butter Mak'g and Cheese Mak'g (7, 15)		2			8			19	
Special								3	
AGRICULTURAL CHEMISTRY.									
Principles, Nomenclature, etc (1)	2			6			67		
Organic Chemistry (8)		2			6			57	
Applications of Chemistry to Agr. (9)			4			6			52
Laboratory (4)				10	10	10	23	21	10
Chemistry of Milk and Milk-testing (7)		2						15	
Laboratory (6)					10	10		2	2
ANATOMY AND PHYSIOLOGY.									
Human Anatomy and Physiol. (1, 51, 52)	6	6	6	9	3	3	87	82	74
General Physiology			3			1			6
Histology and Hist-Chemistry (59, 4)	2	2	1	18	10	10	8	10	10
Physiological Laborat'y (53, 54, 55, 56)	2	1	1	13	9	15	12	12	12
Bacteriology (6, 8, 61)		2			5			53	
Microscopy (5, 58)			1			3			14
Thesis and Similar Work				3	2	4	5	3	2
Chemical Physiology (3)			1			6			4
Special Bacteriology			1			2			6
ASTRONOMY.									
Astronomy and Geodesy (2)			4	12			7		9
General Astronomy (52)			5						6
Advanced Astronomy (55, 56)	2			10		10	3		1
Special						10			1
Meteorology (3)			2			1			35
Thesis and similar work						10			1

† The figures in brackets are the department numbers—for which see Part II of this Report.



TABLE I—THE WORK OF INSTRUCTORS, 1898-89—Continued.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory			First Term	Second Term	Third Term
	First Term	Second Term	Third Term	First Term	Second Term	Third Term			
BOTANY.									
Physiological Botany (66 <i>a</i> ).....	6			14			39		
Medical Botnay (4) .....					4			11	
Medical Botany (56).....					4			4	
Systematic and Physiolo'gical Bot'y (55)	2			8			18		
Physiological Botany (53).....	3			6			6		
Physiological and Economic Botany (7)		3			8			18	
Dendrology (9) .....				4			2		
Laboratory Work (57, 58, 60, 64, 66)...				12		29	8		16
Elementary Botany (1).....			3			16			40
Economic Bot'y and Veg. Pathology (8)			3			6			12
Special and Advanced Work (59, 63, 65)				12			7		
CLAY WORKING AND CERAMICS.									
Ceramic Chemistry (8, 3).....			2			15			8
Lectures (4) .....	5			5			10		
Analysis of Clays and Minerals (2).....		1			10			5	
Lectures and Laboratory (6).....			10			12			8
Analysis of Glasses and Glazes (1, 7)...	2			25	10		6	4	
Manufacture of Bricks (5).....		7						9	
Thesis and Similar Work.....				30	30	30	1	1	1
Lectures (16) .....			5						1
CHEMISTRY.									
Elementary (51, 52).....	2	2		4	4		48	41	
Elementary (7) .....	5	7		34	40		145	139	
Qualitative Analysis (12).....			2			12			16
Qualitative Analysis (53, 54).....	1	1		6	3		10	6	
Quantitative Analysis (55, 56, 4).....	1	1	1	9	4	8	25	21	17
Organic (57, 58, 8, 9).....	5	1	1		4	3	6	6	3
Advanced Chemistry (60).....					3			3	
Applied Chemistry (16).....		2						3	
Toxicology (11) .....			4						12
Thesis and Similar Work.....	2			2			3		
Inorganic Preparations (17).....				2			4		
Sanitary Anaylsis (15).....			1			7			11
Theoretical Chemistry (14).....		3						3	
CIVIL ENGINEERING.									
Land surveying (1).....	5			8			20		
Topography (4) .....		1			15			16	
Railroad Surveying (2).....			5			2			12
Topographical Surveying (3).....	1			12			10		
Working Drawing in Ry. Const'n (5).....		½			15			11	
Stereotomy (6) .....		3			15			12	
Bridge Strains (7).....			5						

TABLE I—THE WORK OF INSTRUCTORS, 1898-99—Continued.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory					
	First Term	Second Term	Third Term	First Term	Second Term	Third Term	First Term	Second Term	Third Term
CIVIL ENGINEERING—Concluded.									
Bridge Designing (8).....			2½	10			7		
Civil Engineering Laboratory (14).....					8			16	
Sanitary Engineering (10).....			5						7
Masonry Construction (15).....	5						9		
Highways (16).....		5						7	
Water Supply (18).....		5						7	
Trusses (19).....			½			5			12
Surveying (21).....			2			2			4
Thesis and Similar Work.....				8	5	10	7	7	7
DOMESTIC SCIENCE.									
Domestic Economy (1, 2, 3).....	2	2	1	12	12	12	21	19	17
Domestic Economy (4, 5, 6).....	1	1	1	6	6	6	3	7	5
DRAWING.									
Freehand Drawing (1).....				26	24	18	170	162	40
Lettering (2).....			3			18			139
Mechanical Drawing (3).....	2	2	2	6	8	4	62	56	48
Draughting and Blue Printing (4).....		1			4			7	
Photography (7).....	1		1	6		6	11		20
Mechanical Drawing (8).....	1	1		2	2		5	4	
Mechanical Drawing (10).....	1			6			42		
Mechanical Drawing (11).....		1			8			5	
Clay Modeling (12).....					4	4		4	2
Pen Drawing (14).....				4			6		
Domestic Architecture (15).....		1	1		2	2		4	4
Technical Drawing (5).....	1			4			28		
Orders of Architecture (1).....		1			8			1	
Styles of Architecture (2).....			2			6			1
Decoration and Ornament (5).....									
*ECONOMICS.									
Elements of Political Economy (51) (52).....	8	8		2	2		54	68	
Practical Problems in Economics (55).....	2						45		
Industrial and Social Reforms (56).....		2						49	
Transportation Problem (57).....	2						28		
Money and Banking (58).....		2						27	
Seminary (61) (62).....	2	2		2	2		5	4	

\* Semester work

TABLE I—THE WORK OF INSTRUCTORS, 1898-99—Continued.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory					
	First Term	Second Term	Third Term	First Term	Second Term	Third Term	First Term	Second Term	Third Term
ELECTRICAL ENGINEERING.									
Electrical Engineering (2).....	5	5	5	...	...	...	4	10	9
Electrical Designing (3).....	...	...	...	6	6	6	11	10	9
Electrical Laboratory (4).....	...	...	...	18	18	9	11	10	9
Electrical Engineering (6) .....	2	2	...	...	...	...	15	16	...
Electrical Engineering (7).....	...	...	...	8	12	...	15	15	...
Special .....	...	...	...	...	...	6	...	...	2
*ELOCUTION AND ORATORY.									
The Science of Expression (51) (52)....	4	4	...	1	2	...	73	65	...
The Art of Expression (53, 54).....	2	2	...	2	2	...	15	12	...
*ENGLISH LITERATURE.									
Introduction to Eng. Literature (51) (52)	8	8	...	...	...	...	76	34	...
The English Bible (55) (56).....	1	1	...	...	...	...	11	10	...
Shakespeare (57) .....	3	...	...	...	...	...	17	...	...
Eng. Poetry from Spenser to Milton (53)	2	...	...	...	...	...	11	...	...
Prose from Cowper to Ruskin (63).....	3	...	...	...	...	...	9	...	...
Prose from Spenser to Milton (54).....	2	2	...	...	...	...	...	24	...
Masterpieces (65, 66, 67).....	3	3	...	...	...	...	11	9	...
Thesis Work .....	...	...	...	...	3	...	...	4	...
Elizabethan Drama (58).....	...	3	...	...	...	...	...	13	...
Poetry from Cowper to Browning (64)...	...	3	...	...	...	...	...	17	...
*EDUCATION.									
Elementary Educat'l Psychology (51)...	4	...	...	...	...	...	8	...	...
Modern Educational Theories (52).....	...	4	...	...	...	...	...	6	...
History of Education (53).....	4	...	...	...	...	...	8	...	...
The Herbartian Pedagogy (55).....	4	...	...	...	...	...	3	...	...
The History of Education, U. S. (57, 60)	2	2	...	...	...	...	14	7	...
Philosophy of Education (58).....	...	4	...	...	...	...	...	14	...
Plato's Republic (54).....	...	2	...	...	...	...	...	5	...
Educational Value .....	...	2	...	...	...	...	...	5	...
Child Study .....	2	...	...	...	2	...	2	3	...
Froebel (56) .....	...	2	...	...	...	...	...	4	...
GEOLOGY.									
Elementary Geology (4).....	...	5	...	...	...	...	...	10	...
Cosmical Geology (2) (51).....	5	5	...	2	1	...	36	33	...
Paleontology (53) (54).....	...	...	...	3	5	3	4	5	2
Petrography (55) (56).....	...	...	...	3	5	3	4	3	1
Physical Geography (1).....	...	...	5	...	...	...	...	...	37
Economic Geology (3).....	...	...	5	...	...	...	...	...	22
Geographic Geology (58).....	...	2	...	...	...	2	...	1	1
Special .....	...	...	3	...	...	...	...	...	3

\*Semester work



TABLE I—THE WORK OF INSTRUCTORS, 1898-99—Continued.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory					
	First Term	Second Term	Third Term	First Term	Second Term	Third Term	First Term	Second Term	Third Term
GERMAN LANGUAGE AND LITERATURE.									
Elementary German (1) (51) (52).....	12	12	.....	.....	.....	.....	128	114	.....
Science Reading (2) (53) (54).....	2	2	.....	.....	.....	.....	16	20	.....
German Literature (4) (55) (56).....	8	8	.....	.....	.....	.....	40	36	.....
The German Drama (57).....	3	.....	.....	.....	.....	.....	7	.....	.....
The German Prose (58).....	.....	3	.....	.....	.....	.....	.....	7	.....
Faust I—(59) .....	2	.....	.....	.....	.....	.....	7	.....	.....
Faust II—(60) .....	.....	2	.....	.....	.....	.....	.....	8	.....
Thesis .....	.....	.....	.....	.....	1	.....	.....	1	.....
Colloquial Exercises (65) (66).....	2	2	.....	.....	.....	.....	5	4	.....
Old Norse (69) .....	2	.....	.....	.....	.....	.....	4	.....	.....
Sanskrit (51) (52).....	1	1	.....	.....	.....	.....	2	1	.....
Comparative Grammar (70).....	.....	2	.....	.....	.....	.....	.....	20	.....
*GREEK LANGUAGE AND LITERATURE.									
Elementary Greek .....	5	5	.....	.....	.....	.....	14	14	.....
Xenophon's Memorabilia (51).....	4	.....	.....	.....	.....	.....	17	.....	.....
Odyssey (52) .....	.....	4	.....	.....	.....	.....	.....	14	.....
Lysias (53) .....	4	.....	.....	.....	.....	.....	25	.....	.....
Homer (54) .....	.....	4	.....	.....	.....	.....	.....	23	.....
Homer (57) .....	3	.....	.....	.....	.....	.....	7	.....	.....
Sophocles Antigone (58).....	.....	3	.....	.....	.....	.....	.....	7	.....
Attic Drama (68).....	2	.....	.....	.....	.....	.....	9	.....	.....
Sophocles (62) .....	.....	2	.....	.....	.....	.....	.....	8	.....
Graduate .....	1	1	.....	.....	.....	.....	1	1	.....
*HISTORY AND POLITICAL SCIENCE.									
HISTORY									
General History of Europe to Close of Middle Ages (51) .....	6	.....	.....	.....	.....	.....	66	.....	.....
From Close of Middle Ages to French Revolution (52) .....	.....	6	.....	.....	.....	.....	.....	67	.....
Political and Constitutional History of England to the Accession of the Stuarts (53) .....	3	.....	.....	.....	.....	.....	26	.....	.....
From Accession of Stuarts to Present Time (54) .....	.....	3	.....	.....	.....	.....	.....	19	.....
Political and Constitutional History of United States (55) (5) (56).....	4	4	.....	.....	.....	.....	55	50	.....
History of Europe from 1789 to 1815 (57) .....	3	.....	.....	.....	.....	.....	7	.....	.....
History of Europe since 1815 (58).....	.....	3	.....	.....	.....	.....	.....	3	.....
Roman History and Institutions (59).....	2	.....	.....	.....	.....	.....	.....	7	.....
Protestant Reformation (60).....	.....	2	.....	.....	.....	.....	.....	4	.....
Pro-Seminary (61) (62).....	2	2	.....	.....	.....	.....	14	13	.....
Secession, Civil War and Reconstruction (65) .....	3	.....	.....	.....	.....	.....	29	.....	.....
American Diplomatic History (68).....	.....	3	.....	.....	.....	.....	.....	33	.....

\*Semester work

TABLE I—THE WORK OF INSTRUCTORS, 1898-99—Continued.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory					
	First Term	Second Term	Third Term	First Term	Second Term	Third Term	First Term	Second Term	Third Term
POLITICAL SCIENCE.									
Constitutional and International Law...	4	.....	.....	.....	.....	.....	32	.....	.....
Municipal Government (52).....	.....	2	.....	.....	.....	.....	.....	33	.....
Political Institutions of the United States (53) .....	3	.....	.....	.....	.....	.....	24	.....	.....
Comparative Political Institutions of Europe and America (54).....	.....	3	.....	.....	.....	.....	.....	24	.....
Thesis Work .....	.....	.....	.....	4	3½	.....	14	13	.....
HORTICULTURE.									
Elements of Horticulture (1).....	3	3	3	2	2	4	20	8	12
Pomology and Viticulture (5).....	2	.....	.....	4	.....	.....	3	.....	.....
Vegetable Gardening and Seed Growing (6) .....	.....	4	.....	.....	1	.....	.....	2	.....
Small Fruit Culture (7).....	.....	.....	3	.....	.....	2	.....	.....	4
Elements of Floriculture (8).....	1	.....	.....	2	.....	.....	3	.....	.....
Commercial Floriculture (9).....	.....	1	.....	.....	2	.....	.....	1	.....
Home Flower Gardening (10).....	.....	.....	1	.....	.....	2	.....	.....	1
Arboriculture (11) .....	1	.....	.....	2	.....	.....	3	.....	.....
Forestry (12) .....	.....	2	.....	.....	.....	.....	.....	2	.....
Landscape Gardening (13).....	.....	.....	1	.....	.....	2	.....	.....	1
Thesis and Similar Work.....	.....	.....	.....	2	3	2	2	3	2
INDUSTRIAL ARTS AND SHOPWORK.									
INDUSTRIAL ARTS.									
Tools and Machines (1).....	3	3	3	.....	.....	.....	2	5	2
Machine Design .....	.....	.....	.....	.....	.....	9	.....	.....	18
Workshop Appliances (5).....	.....	.....	3	.....	.....	.....	.....	.....	7
SHOPWORK.									
Carpentry and Pattern Making (1).....	.....	.....	.....	12	12	23	52	27	52
Forging (2) .....	.....	1½	.....	14	15	6	56	32	15
Foundry Work (3).....	.....	.....	.....	.....	4	.....	.....	13	.....
Chipping and Filing (4).....	.....	.....	.....	6	4	15	17	27	22
Machine Work (5).....	.....	.....	.....	4	6	6	19	6	13
Advanced Machine Work (6).....	.....	.....	.....	8	6	9	14	8	5
*LATIN.									
Cicero, Livy (51).....	8	.....	.....	.....	.....	.....	50	.....	.....
Plautus, Terence (52).....	.....	8	.....	.....	.....	.....	.....	43	.....
Horace (53) .....	8	.....	.....	.....	.....	.....	43	.....	.....
Juvenal, Pliny (54).....	.....	8	.....	.....	.....	.....	.....	39	.....

\* Semester work

TABLE I—THE WORK OF INSTRUCTORS, 1898-99 — Continued.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory					
	First Term	Second Term	Third Term	First Term	Second Term	Third Term	First Term	Second Term	Third Term
* LATIN — Concluded									
Lucretius (57) .....	6	.....	.....	.....	.....	.....	8	.....	.....
Elegaic Poets (58).....	.....	6	.....	.....	.....	.....	.....	7	.....
Pharmaceutical (1) (59) (60).....	5	5	.....	.....	.....	.....	12	8	.....
Linguistics and Inscriptions (61) (62)...	2	2	.....	.....	.....	.....	3	3	.....
Thesis and Similar Work.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Prose Composit'n and Tr'slat'n (63) (64)	2	2	.....	.....	.....	.....	4	4	.....
MATHEMATICS.									
Elementary Algebra (1).....	10	.....	.....	.....	.....	.....	22	.....	.....
Elementary Algebra (2) .....	5	5	5	.....	.....	.....	16	21	16
Plane Geometry (3) (34).....	5	10	.....	.....	.....	.....	21	36	.....
Solid Geometry (13).....	.....	5	.....	.....	.....	.....	.....	24	.....
Plane Trigonometry (14).....	30	.....	10	.....	.....	.....	140	.....	27
Analytical & Spherical Trigonometry (15)	.....	14	.....	.....	.....	.....	.....	125	.....
College Algebra (16).....	.....	21	.....	.....	.....	.....	.....	134	.....
Plane Analytics (17).....	.....	.....	35	.....	.....	.....	.....	.....	126
Space Analytics (18).....	15	.....	.....	.....	.....	.....	56	.....	.....
Differential Calculus (19).....	.....	15	.....	.....	.....	.....	.....	49	.....
Integral Calculus (20).....	.....	.....	15	.....	.....	.....	.....	.....	48
Differential Equations (11).....	2	.....	.....	.....	.....	.....	24	.....	.....
Least Squares (8) .....	2	.....	.....	.....	.....	.....	10	.....	.....
*MATHEMATICS.									
College Algebra (67) .....	15	.....	.....	.....	.....	.....	93	.....	.....
Problems on all Past Work (66).....	.....	1	.....	.....	.....	.....	.....	6	.....
Advanced Mathematics (63) (64).....	7	9	.....	.....	.....	.....	12	12	.....
Trigonometry (68).....	.....	1	.....	12	.....	.....	.....	61	.....
History of Mathematics.....	.....	.....	2	.....	.....	.....	.....	.....	7
MECHANICAL ENGINEERING.									
Mechanism (3) .....	.....	5	.....	.....	.....	4	.....	18	10
Analytical Mechanics (6).....	10	13	.....	.....	.....	.....	33	37	.....
Strength of Materials (7).....	.....	.....	10	.....	.....	.....	.....	.....	34
Thermodynamics (8).....	5	.....	.....	.....	.....	.....	18	.....	.....
Prime Movers (9).....	5	.....	.....	.....	.....	.....	19	.....	.....
Machinery and Millwork (10).....	.....	5	.....	.....	.....	.....	.....	15	.....
Experimental Laboratory (12, 13, 14, 15, 16, 17).....	.....	1	1	12	13	14	20	13	15
Machine Design (18).....	5	5	.....	.....	.....	.....	6	7	.....
Hydraulic Machinery (20).....	.....	.....	2	.....	.....	.....	.....	.....	9
Timber and Masonry (22).....	.....	5	.....	.....	.....	.....	.....	10	.....
Experimental Eng'ring Laboratory (24)	.....	.....	.....	.....	.....	6	.....	.....	7
Experimental Eng'ring Laboratory (25)	.....	.....	.....	.....	.....	6	.....	.....	7

\* Semester work



TABLE I—THE WORK OF INSTRUCTORS, 1898-99—Continued.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory					
	First Term	Second Term	Third Term	First Term	Second Term	Third Term	First Term	Second Term	Third Term
MECHANICAL ENGINEERING.—Con.									
Graduate Work .....	1	2	....	18	18	20	3	3	3
Care of Boiler and Engine.....		2						21	....
Theses .....					6	20		8	7
METALLURGY AND MINERALOGY.									
Metallurgy (4) .....	5	5					21	15	....
Metallurgical Laboratory (5).....		1	1	10	20	10	10	13	12
Ore Dressing (8).....	2						4		....
Assaying (6) .....					14			7	....
Mineral Chemistry (9).....			5						3
Mineralogy (2) .....			3						60
Determinative Mineralogy (3).....					10				4
Thesis and Similar Work.....					3				4
Metallurgical Construction (7).....		3			2			4	....
MILITARY SCIENCE AND TACTICS.									
Military Drill .....							343	327	247
Tactics .....		2						40	....
MINE ENGINEERING.									
Mine Surveying (1).....	5			6			3		....
Ventilation and Haulage (2).....		5			2			4	....
Mine Engineering (5).....	5	5	5	2	2		3	3	3
Mine Operating (3).....			5			2			3
Mine Surveying (4).....	3			9			7		....
Mine Engineering (6).....			1			8			3
Thesis and Similar Work.....					5				....
PHARMACY.									
Pharmacy (6) (7).....	3	2			10		12	12	....
Dispensaries (8) .....			2			10			8
Pharmaceutical Chemistry (9).....	2			10			18		....
Extemporaneous Chemistry (10).....		2			10			18	....
Lectures and Dispensing Practice (11).....			2			10			15
Materia Medica (12) (13).....	3	3					14	21	....
Materia Medica and Therapeutics (14).....			3						19
Pharmaceutical Assaying (15).....	2			10			5		....
Methods of Manufacture (16) (17) (18).....		2	7		10	20		5	10
Pharmacy (12) (13) (Vet. Students).....	5	5				5	5	5	5

TABLE I—THE WORK OF INSTRUCTORS, 1898-99—Continued.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory					
	First Term	Second Term	Third Term	First Term	Second Term	Third Term	First Term	Second Term	Third Term
*PHILOSOPHY.									
Psychology (51) .....	4						40		
Psychology (53) .....	6						36		
Logic and Ethics (52).....		4						32	
Logic (54) .....		3						35	
History of Modern Philosophy (56).....		9						37	
Hist. of Ancient and Medieval Phil. (57)	3						9		
Advanced Work (59) (60).....	2	2					3	2	
Physiology & Exp. Psychology (61) (62)	3				4		4	4	
Study of Religion (63) (64).....	2	2					4	2	
Special .....									
Ethics (55) .....	6						31		
PHYSICAL EDUCATION.									
Young men .....	5	4	4	38	32	24	150	100	30
Young women .....		16	16	16	2		100	90	75
PHYSICS.									
Elementary Physics (1).....	10	10					89	79	
Mechanics and Heat (2) (51) (52).....	7	6	6				88	62	62
Problems (3) .....	2	2	2				27	20	16
Electricity and Magnetism (4).....	3						14		
Physical Laboratory .....				30	19	19	13	43	35
Mechanics, Sound and Heat (53).....	3						28		
Electricity and Magnetism (54).....		1			4			20	
Thesis and Similar Work.....				9	6	6	2	3	3
*RHETORIC AND ENGLISH LANGUAGE.									
Paragraph Writing (51) (1).....	14			11			309		
Practical Rhetoric (1) (52).....		14						287	
Analysis of Prose (53) (54).....	8	8					40	72	
Advanced Rhetoric (3) (64).....	4	4					57	44	
Rapid Writing (55) (56).....	1	1		4	4		25	19	
Brief Making and Argument (57).....	3						20		
Short Stories (60).....		2						11	
Poetics (59) .....	2						8		
Studies in Exposition (58).....		3						14	
Rhetorical Theory & Criticism (61) (62)	2	2			10		5	6	
Thesis and Similar Work.....					2				
ENGLISH LANGUAGE.									
Old English (51) (52).....	2	2					26	24	
Middle English (53).....	2						9		
Historical English Grammar (54).....		2			2			6	

\*Semester work

TABLE I—THE WORK OF INSTRUCTORS, 1898-99 — Continued.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory					
	First Term	Second Term	Third Term	First Term	Second Term	Third Term	First Term	Second Term	Third Term
*ROMANCE LANGUAGES.									
FRENCH									
Elementary French (1) (52).....	12						154		
Modern Prose and Plays (1) (52).....		12						131	
Modern French Literature (55) (56) (2).....	8	8					63	47	
Recent French Prose Writers (58).....		3						29	
Advanced Prose Composition (59) (60).....	1	1					18	16	
French Comedy (57).....	3						27		
French Seminary (61) (62).....	3	3					6	8	
Thesis and Similar Work.....				5	5				
ITALIAN									
Elementary Italian (51) (52).....	2	2					8	5	
SPANISH									
Grammar and Readings (51) (52).....	2	2					12	11	
VETERINARY MEDICINE.									
Anatomy (28).....	5						15		
General Pathology (29).....		5						18	
Special Pathology (30).....			5						16
General Surgery (24).....	5			5			2		
Clinic (19).....	2	2		12	12	12	9	9	9
Special Pathology (20) (21).....	3	3					5	4	
General Therapeutics (22).....			5						4
Lectures and General Pathology (14).....	5		5				7		5
Osteology (11).....	5			10			7		
Meat Inspection (27).....	5						6		
Special Pathology (15) (16).....		5	5				5	5	5
Diseases of the Cow (17).....		3	3					15	
Surgical Diseases and Operations (18).....	5	5	5				5	5	5
Myology (12).....		5						5	
Eye Diseases.....		2						3	
Principles of Horse-shoeing (26).....			5						3
Obstetrics (23).....		5	5					2	2
Canine Disease (31).....			3						3

\* Semester work



TABLE I—THE WORK OF INSTRUCTORS, 1898-99—Concluded.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory					
	First Term	Second Term	Third Term	First Term	Second Term	Third Term	First Term	Second Term	Third Term
ZOOLOGY.									
Comparative Zoology (1) (51) (52).....	4	4	4	10	8	8	81	64	21
Com. Anatomy of Vertebrates (53) (55).....	2	.....	.....	12	.....	.....	4	.....	.....
Com. Anatomy of Vertebrates (54) (56).....	.....	1	.....	.....	8	.....	.....	3	.....
Zoology and Anatomy (58) (60).....	.....	2	.....	.....	8	.....	.....	3	.....
Economic Entomology (3).....	.....	.....	.....	.....	.....	6	.....	.....	2
Economic Entomology (4).....	2	2	2	.....	.....	.....	15	15	12
Systematic and Practical Entomology (7).....	.....	.....	3	.....	.....	.....	.....	.....	7
Comparative Zoology (64).....	.....	2	.....	.....	4	.....	.....	21	.....
Zoology (57) .....	.....	.....	.....	12	.....	.....	3	.....	.....
Graduate Work .....	.....	.....	.....	16	.....	.....	2	.....	.....

TABLE II—SHOWING THE WHOLE NUMBER OF DEGREES IN COURSE  
CONFERRED SINCE THE FOUNDING OF THE UNIVERSITY.

	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.
Bachelor of arts.....	1	1	6	2	2	1	5	4	6	8	6	1	7	2	6	9	12	19	13	17	18	8
Bachelor of philosophy.....				2		2	2	1	1	2	6	7	4	8	8	5	5	19	26	27	27	31
Bachelor of science.....	5	5	1	2	5	3	2	4	2	4	4	8	2	10	7	11	7	9	4	10	10	2
Bachelor of science in agr.....								1	1				2	3	3			2	4	4	5	5
Bachelor of science in chemistry.....																						1
Bachelor of science in H., F.....															1	3		1	1	1	2	1
Bachelor of science, Ind. Arts.....																				1	1	....
Civil engineer.....					1	1	1	3	3	4	1	2	2	7	9	7	9	9	11	4	8	7
Mechanical engineer .....		1		2	4	1	3	1	2	4	2	3	2	5	2	1	2	4	9	5	6	
Electrical engineer .....														4	9	8	15	17	13	10	7	
Engineer of mines.....		1	1			1	2	4	1	4	2			1	1	4	1	6	3	2	3	
Graduate in pharmacy.....									3		2	3	6	5	5	3	11	12	11	7	....	
Master of pharmacy.....																		1	....		1	....
Doctor of veterinary medicine.....									1		1	4		4	5		4	2	3	....	....	
Master of arts.....												1	1	1	2		2	....	4	4	3	
Master of science.....			1								1	1	2	2		2	....	3	3	2	3	
Master of agriculture.....																	1	2	....	1	....	
Master of science in H. & F.....																			1	1	1	
Doctor of philosophy.....	1															1						
Doctor of science.....												1					1		1			
Bachelor of laws.....														9	18	15	16	6	23	22	21	
Master of laws.....														2	4	2	....	6	....	....	....	
Totals .....	6	7	9	8	9	11	12	16	18	24	28	26	30	36	65	79	70	112	118	135	126	99

TABLE III—SHOWING THE NUMBER OF STUDENTS IN THE GENERAL TECHNICAL AND PROFESSIONAL COURSES.

	1890-91.	1891-92.	1892-93.	1893-94.	1894-95.	1895-96.	1896-97.	1897-98.	1898-99.
General courses (College of Arts).	137	151	194	245	256	322	327	358	371
Technical courses (other Colleges except Law) .....	166	259	381	368	424	453	453	511	541
Professional courses (College of Law) .....		55	67	72	65	100	132	148	191
*Graduate students and summer school .....	2	.....	.....	1	.....	94	97	133	75
Totals .....	305	465	642	686	745	969	1,019	1,150	1,178

\*Until 1896, graduate students have been included in the first three classes.



## REPORT OF THE LIBRARIAN

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COLUMBUS, OHIO, *July 1, 1899.*

*The President, Ohio State University:*

*Dear Sir:*—The annual report upon the condition of the University Library is herewith respectfully submitted.

### SIZE AND GROWTH.

The number of books in the library is approximately 31,000. The number is not given exactly because the great number of public documents which have been received within the last few months have not yet been accessioned, lack of room and lack of help having made it impossible to keep that work up to date.

Thirty-one thousand volumes would be considered but a medium-sized library for a college, and for a university with six colleges it is totally inadequate. In the Phi Beta Kappa address at the Northwestern University in 1893, William F. Poole well expressed the true relation of the library to the university. He said, "The popularity of a university once depended wholly upon the professional reputation of its instructors. Now the leading questions relate to the size, character, and value of its library. The presence of a large body of post-graduate students is an inspiring feature of university life, and to the public a guaranty of the high scholarship and superior educational advantages of the institution. These students can not be secured and retained unless they have access to a large and well-furnished library." Now in character the University Library yields to none. Our books are well selected, there being very little "lumber" on the shelves. But when size is considered, it is plainly evident that large and frequent additions will have to be made before the Ohio State University Library can be that power in the University that all, who are keeping abreast of progress in educational methods, now recognize that it ought to be.

It is six years since the library was made a regular department of the University. Within that time the additions have been (in round numbers) 18,000 volumes, an average increase of 3,000 volumes per year. Within this period Harvard's Library has increased at the rate of 15,000 volumes per year, Columbia 18,000, and the University of Pennsylvania 10,000. The fact that Harvard has added five times, Columbia six times and Pennsylvania three times as many books per year to

their libraries as has the Ohio State University need not interest us especially, but the ratio of the growth of their libraries to the growth of the institutions as a whole is significant. And here is the reason that the slow growth of the university library is ominous. It has not kept pace with the growth of the University as a whole, while it should have grown more rapidly.

Naturally the main source of growth must be looked for in the annual appropriations of the Board of Trustees. Since the average cost of a University book is \$2.50 it is easy to estimate the appropriation needed to add by purchase the very moderate number of 5,000 volumes per year. The largest annual appropriation for books which has yet been received is \$5,000, it being the appropriation for 1898-1899, and the same amount has been appropriated for 1899-1900. It is earnestly hoped that the Trustees will soon see their way clear to more than double the size of the annual appropriation.

One very important source of increase is to be found in public documents of all kinds, — government, state and municipal, — and in the reports and transactions of learned societies. The majority of these most valuable documents may be had for the cost of transportation, providing there is some one connected with the library whose duty it is to keep constantly informed as to what is being issued and to make a point of securing it. A very great service was done to the Library by the Board of Trustees when an assistant was added to the Library staff, who should be responsible for securing material of this kind.

Another source of increase, and one which has been especially fruitful during the last year, is found in the donations resulting from the individual care and interest of friends of the University. The number of books added to the Library in 1898-1899 was 7,660, an annual increase unprecedented in the history of the Library, and almost half of the entire number added since 1893. Of this number 5,000, approximately, have been presented, and fully 3,000 of these gifts, came through the action of three men. Such a gift deserves special mention and we take pleasure in giving its history.

The University Library is not a depository for United States documents. In designating such depositories the University has been passed by and now Ohio has her full quota. Many of the cloth-bound volumes have come to the Library, but the set of sheep-bound documents, which contains many valuable committee reports not to be obtained in any other way, has never been on our shelves. In March Professor Knight addressed a letter to Secretary Cope, calling his attention to the great loss the Library was sustaining in not possessing these books and suggesting that something might be accomplished through President McKinley. Secretary Cope at once wrote a strong letter to the President, stating that the State University was not obtaining from the government the gifts to which it ought to be entitled,

and asking that if possible something be done to change the existing condition of affairs. President McKinley, who still retains a warm interest in the University, gave the matter his immediate attention, with the result that about half of the sheep-bound documents have been sent to us from Washington, and we are expecting to obtain more. So much is due to individual effort. Under the existing law we can not be made a depository. It is hoped that the plan first suggested by the Association of Agricultural Colleges of making depositories of all the land-grant colleges which are not already such, will be carried through this next session of Congress.

Many gifts have come to the Library through the efforts of the University Library Association. This is an organization the object of which is "to work for the welfare of the Ohio State University by augmenting the University Library," and from it the Library expects to derive much benefit. Mr. Paul Jones, wisely feeling that the Library was the point on which outside effort for the advancement of the University could best be centered, was the originator of the organization and is its president. The Association is composed of those specially interested in the University and naturally contains many alumni. At the business meeting of the Alumni Association, held June 13, it was voted to appropriate \$25 from the funds of that Association to be used by the University Library Association under the direction of the librarian. This is not for the purchase of books, but is to be used for incidental expenses, such as circulars and letters, which it is hoped will bring large results in additions to the library. During the last year 395 books have been added to the Library through the efforts of the Association. Some of these have been rare old volumes, a number presented by Mr. Hylas Sabine having come from the library of Daniel Webster and containing his autograph. Special mention should be made of the books presented by Mr. George T. Spahr from his father's library in response to the request of Mr. Jones, acting for the Association. These number 263, and being along a line in which the University Library is weak, will be of special value.

An alphabetical list of donors to the Library during the past year is appended to this report.

#### USE.

The use of the Library is constantly increasing. It is now open fourteen hours each University day and eight hours on Saturday. It has not been thought wise to use much of the assistants' time in gathering statistics, but for two months this year a record was kept of the number coming to the Library each day. The average attendance was found to be 350 per day. There are months when the attendance is not so large. During fine weather the tendency to spend much of the time out of doors reduces the number in the reading room, yet



the attendance even during the month of May was by no means small. The use of the Library at night, though not large, is constant and satisfactory. The summer use of the Library has been exceedingly small. Even when the summer school has been in session an attendance of more than one or two people a day has been a matter worthy of comment. Yet it is desirable that the Library be open a part of the time during the summer, and it has been decided to have it open for consultation each day during this summer, from eight until eleven A. M. During the meeting of the American Association for the Advancement of Science the Library will be open all day.

#### NEED OF NEW BUILDING.

The equipment of the Library has kept fair pace with its growth and activity, but the time has come when the problem of a library building must be faced. That a building for the Library alone must soon be erected is evident to those who have kept in touch with the Library conditions. However, it will be better to patiently endure crowding in our present quarters than to erect a building not suited to its purpose in scope or size.

In designing a library building, one of the first things to keep in mind is that it must be a building which can be enlarged. No matter how large the building or how wisely it has been planned, the time will come when it will be necessary to add to it. In selecting a site, this should be remembered. There is a place on the University campus which, if a good foundation can be obtained, is almost ideal, and that is the site of the Botanical Building. It is almost the geographical center of the campus, which is the place for a college library to be, and what is better still, it is on a hillside which makes it possible to have the main floor of the building connect with the center of the stack, which is a great advantage. If a new building should be erected for the Department of Botany, it would be most desirable to reserve this site for the Library.

It is probable that it would not be necessary to build the stack at the time of the erection of the building. That could come later. The building in itself should be so spacious that for a number of years the whole Library could be contained in it. Then, as the Library grows larger and need for reading room as well as book room increases, the stack could be added and by the removal of the books additional space could be given to readers. The building should be devoted entirely to the Library, but the interests of a Library are now so varied that the number and character of the rooms will be many. There should be at least three large reading rooms. One of these would be the general undergraduate reading room of the University. Around its walls should be shelved a Library of the world's "best books." This will be

to the student in place of the private library, a place in which to become familiar with the "literature of power." The second would be the general reference room in charge of the reference librarians, where would be kept all reference and reserved books, the bibliographies and library catalogues. The third would be the special reference room fitted with individual desks where a certain number, and that a large number, could be given a place for special study. There should also be a large hall where lectures could be given. In addition to these four rooms there should be seminary rooms, a periodical room, a newspaper room, a fine art room and provision for other special needs. There must also be the rooms for administration. Because these have been mentioned last is not an indication that they are least in importance. That they be spacious, light and airy is of the utmost importance.

To erect such a building after the manner in which it should be erected would require at least \$300,000. A perfectly plain building containing the requisite number of rooms could probably be built for less money, but of all University buildings the one which stands for the highest expression of thought in brick and stone should be the Library building. Nothing elaborate, nothing ornate is wanted — only the elegance which comes from the work of the best architects and artists, and the use of the best materials. And simple elegance is not low priced.

#### ADMINISTRATION.

There is a great difference between the ideal college library and the public library. This is admitted by all who have studied the problems confronting the two institutions. The public library exists for the whole community, it must address itself to all classes of men, it must attract the children and retain the mature reader. The college library exists primarily for the few, and those few with a common interest. Though other readers are welcome, it is the need of the professor and student that must first be considered. The Library must be looked upon not as a great social force, but as a factor in the educational work of the college. This is the fundamental characteristic of the college library. It must be an active force in the educational policy of the school with which it is connected. To that end its first and most important duty is to secure books, more books and always more books. A professor knows the literature of his subject. If he does not he should not be at the head of his department. What he needs for himself and for his students is to have as much as possible of this literature on the shelves of the University Library. In a public library, full cataloguing (a very expensive process) must keep step with the book supply, or the public will have no way of knowing what the library possesses. In a college the professor knows what he ought to have,

knows what he does have, guides the students to it and can well do away with expensive cataloguing until there is plenty of money to put into such a luxury. What he needs, what the student needs, is to have the books.

In the University Library three of the five members of the library staff spend most of their time in the acquisition department. Miss Kellicott has charge of all orders, making a complete bibliographical study of each order as it goes out, checking the bills when the books are received, keeping all accounts — of which there are a goodly number — collating, stamping and accessioning all books, whether purchased or presented. Mr. Guittard is responsible for securing all documents which can be had for the asking. Reference has been made to this work in another part of the report. As has been said before, this work is invaluable. Miss Townshend has charge of the periodicals and binding. Watchful care must be given to periodicals in order to secure the reception of complete files; constant attention is requisite not only in looking after new binding, but also in keeping old volumes in good condition. If the Library binding could be done in the Library, it would be a very great advantage. A large and increasing amount of the most valuable material in a library comes to it of a necessity unbound. The library must see that this is well bound in order to preserve it, and the preparation of volumes for binding is no small item of the library work. All of the university binding has up to this time been done in Columbus, with varying degrees of satisfaction. We have been fortunate within the last few years in having the work uniformly well done, although we have suffered from the hurry incident to any business where there is a great pressure of work. One great difficulty, however, has been in the fact that the volumes have had to leave the library during binding. It has not been wise to allow all the binding to accumulate until the summer because of the danger of loss and damage arising from using unbound material, yet whenever binding has been sent from the Library during the year it has invariably happened that some books have been especially needed while they were away. Could this work be done in the library building, the books would be accessible during the whole period of binding excepting while in the press. This would be an advantage so great that it would seem sufficient reason for establishing a bindery, yet there are other reasons for so doing which are fully as important. Not least among them is the fact that our books could be kept in a better state of preservation. Scarcely a day passes without the necessity of books being mended. Much of this work now is done in the library, yet there are often breaks which can not be mended with the tools at our disposal. These books then have to be laid to one side until a lot is sent down to the bindery. With an expert binder in the building, work of this character could be kept



constantly up to date and would greatly save our books. Another point is that the binding would always be under the personal supervision of the librarian.

The books once secured, the next duty of the University Library is to teach the student to make the best use of them. Here the Library steps in as the ally of each professor. The professor gives the necessary references, but it is the Library which should lead the student to original research. Here is another point of difference between the public library and the university library. In the reference work of a public library the aim is to bring a person as much material as possible on his subject; in a college library it is the rule that, if possible, in no case is the material to be brought to a student, but care is always to be taken in helping him to secure it for himself. In a public library the main point is for an inquirer to know what *that* library contains on his subject, in a university library the student should be introduced to bibliographies which will let him know the best that has been written on the subject. He can then find out what his own library contains, and after reading that little does not go away feeling that he has read all that there is to know. In all reference work in a university library this educational feature must be prominent. Of course it requires time, but it is work that pays. In this the Library is weak, having only one regular assistant in the work, Miss Allen. Miss Jeffrey gives part of her time to it, but the most of her time is given to shelf listing and classification.

Classification is something which is made much of, but which in reality is nothing more than the orderly arrangement of the books on the shelves. What arrangement shall be adopted should depend upon the character of the library. The books in the University Library are carefully classified, but as yet no marks have been placed upon them. It is the intention this next year to follow somewhat closely the Harvard scheme of marking. The actual work of classifying, however, requires high scholarship and good judgment. Indeed, the reference work, the classifying, and the subject cataloguing should be in the hands of specialists. The idea that one person can so well know the whole range of knowledge as to do such work for a whole library in the manner in which it ought to be done, is manifestly absurd.

Reference has been made to cataloguing as a luxury. This refers to full dictionary cataloguing. An author list of everything in any library is, of course, a necessity, and this the University Library has. A classed subject catalogue is very desirable, and there is one in process of construction. Much can be done next year toward completing it without additional help. But a dictionary catalogue of subjects and authors is after all the only true catalogue, and that the library has never possessed, and can never possess (unless other work is given up), until a catalogue expert is added to the Library staff. Some librar-

ians, and they are of the highest rank, maintain that students in a university should be taught to use bibliographies, most of which are prepared by specialists, instead of depending upon any one catalogue, however good; and they say that money spent by colleges in such elaborate catalogues could better be spent in books. However, there is no disputing the fact that an entirely new catalogue of the University Library, made on the most approved plans, is very desirable, and the time when the Board of Trustees can see its way clear to appoint a cataloguer will be a very auspicious day for the Library and for the University.

Much of the time of the Librarian has necessarily been spent in routine work. This has been a great detriment to the highest work of the Library. Organization, superintendence and teaching should fully occupy the time of a university librarian. The organization of the acquisition department has been accomplished, but there is still much to do in the second division of the work, i. e., making the books of the most value to the student. Superintendence is, of course, constant. Teaching has two branches, first teaching the use of books to university students; and second, teaching library economy to special students. The first branch has been barely attempted and should receive special attention during the next year. Attendance upon lectures on books and the proper use thereof should be required of every student who enters the University. The second branch is fairly well established and it is hoped will lead to a regular course in library economy.

#### COURSE IN BIBLIOGRAPHY AND LIBRARY ECONOMY.

In 1888 there was established the first school in which library science was taught as a profession. This was at Columbia University, and the school, which was afterwards removed to Albany in connection with the New York State Library and is now known as the New York State Library School, became the parent of a number of other schools taught by its graduates and modeled on its plans. One of these is in connection with the University of Illinois. In no college or university, however, has library science yet been taught as one of the regular courses of instruction running through the entire four years of undergraduate work and with post-graduate courses. That this must be done soon is evident, and it is earnestly hoped that the Ohio State University may have the honor of being the first to offer such a course, giving credit therefor.

For two years students have entered the University for the sole purpose of studying in the Library, although it was known that they could receive no credit for such work. Next year there will be a class of four or five studying library work.

## STAFF.

Not until June, 1893, was the Library recognized as a distinct separate force in the University. Up to that time it was attached to the regular work of a professor and necessarily was a secondary consideration with him. It was fortunate for the Library, however, that it fell into the hands of such men as Professor S. C. Derby and Professor J. R. Smith. Book lovers themselves, and with clear ideas of the whole range of literature, they established the book collection on a firm basis and did much to give that high character to the University Library **and did much to give that high character to the University Library** of which we are justly proud. But librarianship is a profession in itself and to ask one man to be both librarian and professor of a subject other than bibliography was found to be laying too heavy a burden on him. Accordingly, at the time of the removal to new quarters in Orton Hall, the Library was made a distinct department in charge of a librarian who was a member of the general faculty. This was an advance, though in reality it did no more than place the Library in an independent position at the foot of the ladder. The progress up the ladder was slow. The first round was reached when the librarian was granted enough money for student assistance to enable him to have some one beside himself in the library each hour of the day. From this point the Library has slowly advanced to where, with a staff of five and a small sum for employing student assistants, we may be said to occupy a middle place so far as service is concerned. Those who have followed carefully the work of the Library know well how much had to be left undone during the years of insufficient assistance. The Library is only now beginning to catch up with this back work. It is hoped that by next Christmas most of it will have been brought up to date, and this obstacle to progress will have been removed.

As has been said, the Library has scarcely yet reached the point where it can be said that in regard to service it is doing as much as it ought to do. In the first place, more trained helpers are needed. At the present time there should be in the Library an expert cataloguer and an additional reference assistant. Secondly, it should be possible to so arrange the work by departments that the head of a department could make use of clerks and copyists, thus concentrating his time in the truly scholarly work of the Library. Thirdly, there is needed a great advance in salaries. The one point which must be emphasized here is the difference between a university and a public library. The fact that certain things are done and certain salaries paid in a public library has no bearing at all upon a college library. A college library is an integral part of an educational institution, its policy must be determined by the policy of the institution as a whole and the salaries paid must be regulated solely with reference to the salaries generally paid in the college or



university. The librarian of a university ranks as one of the professors and should be paid accordingly. The heads of library departments should rank as assistant professors with corresponding salaries. Library assistants should rank as instructors and be paid according to the university scale for paying instructors. Clerical work should bring the same salary that is paid for such work in any business. A comparison of what exists in our Library with this brief statement of what should be, shows clearly the very inadequate manner in which the Ohio State University provides for its Library.

#### GOVERNMENT.

The Library ranks simply as one of the departments of the University, but in its work and requirements it is very much broader than would be indicated by such rank. It affects the work of every department of the University, and is essentially a part of each of the six colleges. This fact is virtually recognized by the Board of Trustees in the creation of the Library Council which, aside from the president of the University and the University librarian, who are members *ex officio*, is composed of the Deans of the six colleges. This council stands to the Library in much the same relation that a college faculty stands to its college. It is the governing body which settles all questions of library policy, directs the disbursement of the book fund and approves bills.

The council makes annually a written report upon the condition of the Library to the general faculty.

Very respectfully,

OLIVE JONES.

# LIST OF DONORS 1898-1899.

	VOLUMES
American Bankers' Association .....	1
American Book Company.....	6
American Guernsey Cattle Club.....	1
American Hereford Record Association.....	2
American History and Political Sc. Dept. of O. S. U.....	25
American Institute of Mining Engineers.....	2
American Shetland Club.....	2
American Short-horn Association.....	1
American Shopshire Association.....	4
American Society of Mechanical Engineers.....	1
Arkansas, State Documents.....	11
Arlington Mills .....	1
Babcock and Wilcox Co.....	1
Black Top Spanish Merino Sheep Association.....	1
Boston Transit Committee.....	4
Brockhaus, F. A.....	17
Brown, James S.....	1
California, State Documents.....	34
Canada, Documents .....	2
Canfield, James H.....	40
Cincinnati Chamber of Commerce.....	1
Colorado, State Documents.....	10
Connecticut, State Documents.....	107
Crane Company .....	1
Denison University .....	1
Denney, J. V.....	1
Dorset Horn Sheep Breeders Association.....	1
Electric Appliance Company.....	1
Farm Implement News Company .....	1
Foult, Charles W.....	1
Fowler, Charles E.....	1
Georgia, State Documents .....	16
Gordy, J. P.....	1
Harris, William T.....	2
Harvard University .....	1
Hensel, Otto .....	1
Herald Publishing Company.....	4
Herrick, B. B.....	29
Herrick, L. C.....	1
Heywood, W. S. and A. B.....	2
Houghton, H. O.....	1
Houghton, Mifflin and Co.....	1
Hunt, T. F.....	2
Illinois, State Documents .....	84
Indiana, State Documents .....	39
Iowa, State Documents .....	69
Kansas, State Documents.....	57

## VOLUMES

Kentucky, State Documents.....	23
Kershaw, Ella.....	30
Knight, G. W.....	4
McCall, John A.....	1
McCallum, Ray .....	1
Mack, I. F.....	1
Maine, State Documents.....	59
Maine State Pure Blood Jersey Cattle Association.....	8
Maryland, State Documents.....	14
Maryland College .....	1
Massachusetts, State Documents.....	157
Michigan, State Documents.....	139
Michigan, State Law Reports through G. W. Knight.....	71
Millar, John .....	1
Minnesota, State Documents.....	28
Missouri, State Documents.....	64
Monetary Commission .....	1
Montana, State Documents.....	1
Moore, Clarence B.....	2
Murrill, Paul I.....	1
National Educational Association .....	1
National Funeral Directors' Association.....	1
Nebraska, State Documents .....	22
Nelson, Baker and Co.....	1
New Hampshire, State Documents.....	18
New Jersey, State Documents.....	4
New South Wales Government.....	1
New York, State Documents.....	8
New York City .....	1
Noa, Frederic M.....	1
North American Galloway Association.....	9
Ohio, State Documents .....	179
Ohio State Archæological and Historical Society.....	3
Ohio State Law Library.....	5
Ohio State University Alumni Asso. through J. A. Bownocker .....	1
Ohio Wesleyan University.....	1
Ontario, Government .....	2
Orton, Dr. Edward .....	1
Philadelphia .....	1
Physiology, Dept. of O. S. U.....	2
Pittsburgh Reduction Company.....	1
Princeton University .....	1
Reform Club .....	1
Royal Society of Canada.....	1
St. Louis .....	1
Siebert, William .....	2
Smith, J. McClain .....	14
Sociology, Dept. of O. S. U.....	1
Southern Railway Company.....	1
Squibb, Edwin R. and Co.....	4
Standard Poland China Record Association.....	5
Sturtevant, B. F. Co.....	1
Text-book Association of Philadelphia.....	1



	VOLUMES
Townshend, Mrs. N. S.....	13
Union Club .....	1
United States Government.....	3109
University Library Association—	
O’Kane, Henry .....	1
Randall, E. O.....	55
Sabine, Hylas .....	23
Siebert, Wilbur H.....	1
Shoemaker, A. L.....	13
Spahr, George B.....	263
Wharton, Mrs. Mary.....	39
University of Tennessee .....	1
Wisconsin Sheep Breeders’ and Wool Growers’ Association....	2
<b>Total .....</b>	<b>5,017</b>

## REPORT OF THE TREASURER

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COLUMBUS, OHIO, June 30, 1899.

To the HONORABLE J. McLAIN SMITH, President Board of Trustees of the Ohio State University.

SIR: I beg to hand you herewith my annual report for the fiscal year ending the 30th day of June, 1899. This report is accompanied by proper vouchers for all disbursements.

Respectfully,

F. W. PRENTISS, *Treasurer.*

## STATEMENT I.

DETAILED STATEMENT OF RECEIPTS BY F. W. PRENTISS, TREASURER, DURING  
FISCAL YEAR ENDING JUNE 30, 1899.

Date.	From whom received.	For what purpose.	Amount.	Total.
1898.				
July 18	W. C. McCracken.....	Sale of old iron.....	\$2 50	.....
	Edw. Orton, Jr. ....	Supplies in Dept Cer..	115 83	.....
	U. S. Treasury.....	App. Act Aug. 30, 1890	24,000 00	\$24,118 33
Aug. 6	G. B. Kauffman.....	Sale store-room sup. ....	.....	224 00
12	Com. Sinking Fund...	Int. on Endowment...	.....	3,800 00
Sept. 9	C. C. Middleswart.....	Diploma fee .....	5 00	.....
	F. C. Clark.....	"Bus. Men's Fund"	.....	.....
		Dep. Econ. and Soc.	230 00	235 00
16	Com. Sinking Fund...	Int. on Endowment...	.....	2,500 00
22	Auditor of State.....	Req. No. 12 O. S. U.	.....	.....
		Fund .....	13,741 50	.....
	Alexis Cope, Bursar...	Students' fees .....	10,751 04	24,492 54
23	G. B. Kauffman.....	200 store-room cards ..	1,000 00	.....
	Natl. Brick Mfg. Assn.	Scholarship Dep. Cer.	250 00	1,250 00
Oct. 13	F. C. Clark.....	"Bus. Men's Fund"	.....	.....
		Dept. Econ.....	70 00	.....
	Emerson McMillin ...	Endow. Fellow in	.....	.....
		Astron .....	300 00	.....
	L. T. Williams.....	Back rent Chap. House	75 00	445 00
28	G. B. Kauffman.....	Sale store-room cards	250 00	.....
	Alexis Cope, Bursar...	Students' fees .....	877 72	1,127 72
Nov. 2	Auditor of State.....	Req. No. 13 O. S. U.	.....	.....
		Fund .....	14,019 75	.....
	Auditor of State.....	Req. No. 14 O. S. U.	.....	.....
		Fund .....	34,075 00	48,094 75
12	G. B. Kauffman.....	1st and 2nd inst. rent,	.....	.....
		1898-9 .....	.....	90 00
29	B. F. Thomas.....	1st and 2nd inst. rent,	.....	.....
		1898-9 .....	85 00	.....
	Alexis Cope, Bursar...	Students' fees .....	158 75	243 75
30	Com. Sinking Fund...	Int. on Endowment ..	.....	7,400 00
Dec. 8	Auditor of State.....	Req. No. 15 O. S. U.	.....	.....
		Fund .....	14,009 36	.....
	Auditor of State.....	Req. No. 16 O. S. U.	.....	.....
		Fund .....	5,700 00	.....
	C. W. Mesloh.....	9th and 10th inst. rent,	.....	.....
		1897-8 .....	36 00	19,745 36
26	Com. Sinking Fund...	Int on Endowment...	2,814 99	.....
	Alexis Cope, Bursar...	Students' fees .....	135 44	.....
	W. Worcester.....	Broken glass Dorm...	50	2,950 93
30	W. H. Anderson & Co.	309 vol. Law Reports.	.....	309 00
1899.				
Jan. 13	Emp. Lia. Ins. Corp...	Ins. overpaid .....	5 77	.....
	F. C. Clark.....	"Bus. Men's" Fund...	50 00	.....
	B. F. Thomas.....	3rd and 4th inst. rent,	.....	.....
		1898-9 .....	85 00	.....
	G. B. Kauffman.....	Store-room cards .....	250 00	.....
	G. B. Kauffman.....	3rd and 4th inst. rent,	.....	.....
		1898-9 .....	90 00	.....
	Alexis Cope, Bursar...	Students' fees .....	4,138 80	4,619 57
27	Com. Sinking Fund...	Int. on Endowment ...	2,750 00	.....
	Auditor of State.....	Req. No. 17 O. S. U.	.....	.....
		Fund .....	14,366 52	17,116 52



## STATEMENT I—Continued.

Date.	From whom received.	For what purpose.	Amount.	Total.
1899.				
Feb. 20	Com. Sinking Fund...	Int. on Endowment ..		2,000 00
	Telfair & Telfair.....	Deeds to J. C. Shan-		
		non, J. Haley, J. P.		
		Fisher, Act. March		
		14, 1889 .....	6 00	
	B. F. Thomas.....	5th inst. rent, 1898-9..	42 50	
	C. W. Mesloh.....	11th and 12th inst rent,		
		1897-8 .....	36 00	
	Telfair & Telfair.....	Deed, S. E. Hawes,		
		Act March 14, 1889.	2 00	
	F. M. Moore.....	Deed, A. A. Sheley,		
		Act March 14, 1899.	2 00	
	Clevinger & Huls.....	Deed, A. J. Early, Act		
		March 14, 1889 .....	2 00	
	F. M. Moore.....	Deed, F. M. Moore,		
		Act March 14, 1889.	2 00	
	Alexis Cope, Bursar...	Students' fees .....	7,655 60	
	R. H. McCloud.....	Deed, O. K. West,		
		Act March 14, 1889.	2 00	7,750 10
March 3	Auditor of State.....	Req. No. 18 O. S. U.		
		Fund .....		14,297 67
	C. W. Mesloh.....	1st and 2nd inst. rent.	36 00	
	C. U. Tel. Co.....	Overpaid charges ...	5 50	
	G. W. Noel.....	Note, I. G. Noel for		
		lot 109, Scioto Co.,		
		and pt. lot 54, Pike		
		Co .....	194 62	236 12
28	C. A. Grate.....	Broken apparatus ...	3 65	
	Auditor of State.....	State levy .....	14,241 50	
	Telfair & Telfair.....	Deed for V. M. lands.	2 00	
	Recorder Pike Co.....	" " " " " "	2 00	
	Prof. Hitchcock.....	Scrap iron and brass.	3 35	
	C. W. Mesloh.....	Rents .....	36 00	14,288 50
April 11	G. C. Rittenour.....	Deed, Act March 14,		
		1889 .....	2 00	
	H. Alkire.....	Deed, Act March 14,		
		1889 .....	2 00	
	B. F. Thomas.....	6th, 7th and 8th inst.		
		rent, 1898-9 .....	127 50	
	Alexis Cope, Bursar...	Students' fees .....	3,511 02	3,642 52
	Auditor of State.....	Req. No. 20 O. S. U.		
		Fund .....		13,961 50
	Com. Sinking Fund...	Int. on Endowment...		4,000 00
May 5	Auditor of State.....	Req. No. 21 O. S. U.		
		Fund .....		13,894 00
	Col. Gas Co.....	Rebate .....	7 95	
	F. C. Clark.....	Donation Dept. Econ.	25 00	
	G. W. Knight.....	5th, 6th, 7th, 8th, and		
		9th inst. rent, 1897-8	187 50	
	J. M. Reeves.....	Deed, Act March 14,		
		1889 .....	2 00	
	R. M. Saal.....	Deed, Act March 14,		
		1889 .....	2 00	224 45
22	G. B. Kauffman.....	5th, 6th, 7th and 8th		
		inst. rent, 1898-9....	180 00	
	G. B. Kauffman.....	Sale 50 store-room		
		cards .....	250 00	430 00

## STATEMENT I—Concluded.

Date.	From whom received.	For what purpose.	Amount.	Total.
1899.				
May 22	Auditor of State.....	Req. No. 22 O. S. U. Fund .....	13,884 00	.....
	Auditor of State.....	Req. No. 23 O. S. U. Fund .....	9,075 00	22,959 00
27	Feder, Holtzman & Co.	Proceeds \$10,000 re-funding bonds .....		10,797 75
June 17	Alexis Cope, Bursar...	Students' fees .....	769 08	.....
	G. B. Bitzer.....	Deed to Ellen Blair et al.....	2 00	.....
	G. B. Bitzer.....	Deed to E. A. Drake..	2 00	.....
	Standard Oil Co.....	Empty barrels .....	7 20	.....
	C. W. Mesloh.....	5th and 6th inst. rent, 1898-9 .....	36 00	.....
	J. A. Bownocker.....	Alumni luncheon.....	38 00	.....
	R. E. Alspache.....	Duplicate diploma ....	1 50	855 78
	Auditor of State.....	Req. No. 24 O. S. U. Fund .....		792 35
28	Com. Sinking Fund...	Int. on Endowment...	7,799 85	.....
	Kilbourne & J. Mfg. Co.	Overcharge on invoice ..	1 50	.....
	W. H. Gilmore.....	Diploma fee (Class '98)	5 00	.....
	G. B. Kauffman.....	Sale store-room cards..	300 00	.....
	Clinton Nat. Bank....	Overpm't of interest ..	562 50	.....
	B. F. Thomas.....	Breakage of instrum'ts	12 00	8,680 85
	Total receipts.....	.....	.....	\$277,573 06

## STATEMENT II.

DETAILED STATEMENT OF DISBURSEMENTS BY F. W. PRENTISS, TREASURER,  
DURING FISCAL YEAR ENDING JUNE 30, 1899.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898.				
June 30	By balance .....			\$495 36
July 5	Clinton Natl. Bank....	500 I. R. stamps .....	1	\$10 00
7	R. M. Round, P. M....	Postage .....	2	50 00
8	Acme Paving Co.....	Pavement .....	3	215 00
	Am. Battery Co.....	Elect. app.....	4	47 90
	Am. Dist. Tel. Co.....	Messenger service .....	5	2 00
	Am. Harrow Co.....	Casting .....	6	1 00
	W. Atkinson .....	7 2-3 hrs. labor .....	7	1 38
	J. W. Atwood.....	Livery service .....	8	3 00
	D. Bacon .....	Corn .....	9	36 27
	C. E. Barnet.....	Clerical services .....	10	76 00
	L. L. Beattie.....	Sewing .....	11	75
	H. S. Belden.....	40 hrs. labor .....	12	5 00
	Blackw'd, Green & Co.	Hardware sundries .....	13	35 29
	Thos. Boude.....	10 1-5 days' labor .....	14	15 30
	Borger Bros. & Co....	Ash pit, door and boiler..	15	430 00
	E. Bradford .....	62½ hrs.' work.....	16	25 00
	E. Bradley .....	Farming implements .....	17	4 38
	H. Braun Sons & Co..	Oil, etc.....	18	3 10
	J. C. Britton.....	20 hrs.' labor .....	19	3 00
	H. E. Brown & Sons..	Material and labor .....	20	8 75
	Brown, Manly Pl'w Co.	1 cultivator .....	21	15 00
	Bryson, Bruba'k'r & Co	Insurance .....	22	35 18
	Wm. Burdell, Jr.....	Harness supplies .....	23	13 15
	F. C. Caldwell.....	Salary and cash adv.....	24	142 51
	Cap. City Mch. Wks..	Hardware sundries .....	25	36 80
	C. T. Howe.....	Music for com.....	26	32 00
	J. P. Carlile.....	Cement .....	27	2 50
	Cent. Ohio Paper Co..	Printing and stationery ..	28	30 48
	Cent. U. Tel. Co.....	Telephone service .....	29	44 40
	W. I. Chamberlain....	Exp. meet'g trustees July 6	30	13 15
	Champlin Ptg. Co.....	Printing and stationery ..	31	36 20
	F. Charles .....	Hauling .....	32	2 25
	Cherington P. & E. Co.	Dater, etc.....	33	1 60
	Chittenden Hotel Co..	Board of C. W. Hiatt .....	34	4 25
	G. W. Clarke & Co....	Lumber .....	35	3 00
	E. A. Cole & Co.....	Coal .....	36	3 11
	H. Cole & Co.....	Blue print paper .....	37	1 00
	Col. Buggy Co.....	Buggy .....	38	80 00
	Col. Cabinet Co.....	Desks .....	39	32 90
	Col. Gas Co.....	Mantels, etc.....	40	4 20
	Col. Machine Co.....	Machine parts .....	41	5 28
	Col. Rubber & Bltg. Co.	Hose, etc.....	42	3 18
	Col. Supply Co.....	Supplies .....	43	8 90
	Col. Tent & Awn. Co..	Canvass .....	44	9 00
	Col. Transfer Co.....	Coupe service .....	45	1 75
	A. F. Conradi.....	91½ hrs.' labor .....	46	11 44
	O. T. Corson.....	Advertising .....	47	22 50
	G. D. Cross Lumber Co.	Lumber .....	48	11 56
	Crystal Ice Mfg. Co..	Ice .....	49	3 85
	C. E. Cummings.....	Lichens .....	50	3 10
	L. Davis & Son.....	Fencing .....	51	20 30
	DeLaval Separator Co.	Separator .....	52	300 00



## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898.				
July 8	J. Dewey & Co.....	Lumber .....	53	10 60
	A. Earl .....	" .....	54	40 12
	Edgar P. Kaolin Co...	Clay .....	55	7 25
	Chas. Engelhard.....	Scientific instruments.....	56	131 75
	Engelke & Bigelow....	Freight and cartage .....	57	31 85
	W. Erdman .....	40 hrs.' labor .....	58	6 00
	J. A. Erner & Co.....	Labor and material .....	59	34 75
	M. Evans .....	Flowers .....	60	8 75
	H. A. Farnham.....	180 hrs.' labor .....	61	9 00
	F. A. Faunce.....	Painting and papering .....	62	120 18
	F. A. Fish.....	80 hrs.' labor .....	63	10 50
	Fitzpatrick & Co.....	Pipe covering and boiler....	64	369 36
	F. E. Fleischer.....	202 hrs.' labor .....	65	25 25
	C. D. Fleming.....	Shade trees .....	66	15 00
	Franklin Toil. Sup. Co.	Towels furnished .....	67	17 85
	A. G. Fritchey.....	Soap, etc.....	68	4 60
	R. W. Funk.....	144 hrs.' work .....	69	21 60
	Gabriel & Schall.....	Paris white .....	70	24 71
	H. Gamper .....	210½ hrs.' labor .....	71	31 55
	C. Garner .....	Corn .....	72	107 35
	J. J. Gheen.....	Plastering .....	73	86 45
	W. Gilmore .....	33 hrs.' labor .....	74	4 12
	H. Goldsmith .....	Repairs to band instrum'ts..	75	4 50
	Green, Joyce & Co....	Ribbon .....	76	3 00
	C. E. Gregory.....	Voltmeter .....	77	12 50
	A. F. Hall.....	1 mo. and 90 hrs.' labor....	78	82 50
	Far. Handy Wag. Co..	1 wagon .....	79	22 50
	Hanna Pt. Mfg. Co..	Oil, etc.....	80	1 10
	Hann & Adair.....	Printing .....	81	22 20
	C. W. Harper.....	Etching, etc.....	82	15 85
	Edw. Hauffe.....	40 hrs.' labor .....	83	10 00
	P. Hayden Sd. Hd. Co.	Hdwe .....	84	22 99
	Hayden's M. & M. Co.	Clay .....	85	3 00
	J. Hertner .....	32 hrs.' labor .....	86	4 00
	L. Hoster Brew. Co...	Sprouts .....	87	31 02
	Jno. Immel & Son....	Repairs to milk wagon....	88	23 25
	F. Ingham .....	26 hrs.' labor .....	89	3 90
	Maude D. Jeffrey.....	Clerical labor .....	90	6 25
	F. S. Johnson.....	" .....	91	12 00
	Kauffman, Lattimer Co	Chemicals .....	92	57 32
	M. Keith, Jr.....	23 hrs.' labor .....	93	5 75
	G. D. Kellicott.....	Clerical services .....	94	6 25
	Kelton & Converse....	Lumber .....	95	76 66
	Kilbourne & J. Mfg. Co	Castings .....	96	9 75
	Kimball & Matthews..	Chemicals .....	97	7 56
	Krauss, Butler & B. Co.	Shades, etc .....	98	313 04
	W. E. Lamb.....	50 hrs.' labor .....	99	7 50
	Landon Pt. & Pub. Co.	Printing .....	100	10 15
	E. C. Livenspire.....	Horseshoeing .....	101	14 10
	A. W. Livingston's Sns	Ensilage and peas .....	102	2 75
	A. E. Loeb.....	146 hrs.' labor .....	103	25 55
	N. W. Lord.....	Cash adv. for gas, etc.....	104	6 80
	Mitchell Adv. Co.....	Time card .....	105	1 00
	Chas. Mooney .....	16¾ hrs.' labor .....	106	2 52
	A. D. Morely.....	12 " .....	107	3 00
	Murray City Coal Co..	Coal .....	108	443 79

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898.				
July 8	Jno. McAllister .....	Repair work .....	109	51 34
	McAllister, M. & Co..	Furniture, etc.....	110	26 41
	McClelland & Co.....	1 band box .....	111	1 12
	R. E. McIntosh.....	77½ hrs.' labor .....	112	9 60
	F. McKinney .....	32 hrs. as guide .....	113	4 00
	A. McLaughlin.....	38 hrs. work .....	114	5 70
	Nitschke Bros .....	Printing, etc.....	115	60 95
	K. Nurian .....	40 hrs.' labor .....	116	6 00
	Edw. Orton, Jr.....	Cash adv. for labor .....	117	2 12
	F. Pavlicek.....	52 hrs. guide .....	118	6 50
	Payne, McD. Hdw. Co.	Hardware .....	119	40 78
	M. Peck .....	2 days' work .....	120	3 00
	Penn. Fuel Co.....	Coal .....	121	8 40
	J. C. Perry.....	12 hrs.' labor .....	122	1 63
	Pickhardt & Kutroft..	Dye .....	123	1 00
	B. D. Potts.....	Hose .....	124	1 00
	Queen & Co.....	Scientific instruments .....	125	36 10
	Quinius & Ridenour..	File cases .....	126	1 00
	E. S. Ream.....	5 hrs.' labor .....	127	63
	L. S. Wells.....	Mdse .....	128	50
	J. M. & W. Westwater.	Labor and material .....	129	16 50
	Z. L. White & Co.....	Cheese cloth .....	130	1 00
	A. H. Reid.....	Dairy mchy .....	131	4 30
	J. S. Rine.....	Painting .....	132	33 50
	J. L. Roberts.....	15½ hrs.' labor .....	133	1 94
	F. O. Schoedinger....	Zinc trays .....	134	3 85
	Schoedinger, F. & Co..	Hdwe .....	135	11 15
	R. J. Seymour.....	124 hrs.' guide .....	136	15 50
	Schilling Fdy. Co.....	Castings .....	137	35 40
	G. S. Singer.....	2 burners .....	138	70
	D. F. Singleton.....	Brick laying .....	139	2 25
	C. C. Sleffel.....	Paint .....	140	2 00
	A. H. Smythe.....	Mail basket .....	141	40
	Southard & Wolf.....	Stationery .....	142	1 50
	Spahr & Glenn.....	Lining diplomas .....	143	23 50
	J. R. Spurrier.....	Labor and material .....	144	3 10
	J. Stanbrook.....	13 days' labor .....	145	19 50
	Standard Oil Co.....	Oil .....	146	93 33
	G. E. Stechert.....	Books and magazines .....	147	17 71
	E. Stoughton .....	32 hrs.' janitor .....	148	4 80
	Strobridge Lith. Co..	Diplomas .....	149	105 00
	J. H. Randall.....	90½ hrs.' labor .....	150	22 63
	Tallmadge Hdw. Co..	Hdwe .....	151	38 79
	Taylor Mant. & G. Co.	Remodeling prest's office..	152	151 00
	T. T. Tress.....	Repair on clocks .....	153	4 25
	G. Trowbridge.....	110 hrs.' labor .....	154	27 50
	Vogelgesang Furn. Co.	Repair furnace .....	155	6 19
	F. R. West.....	37 hrs.' guide .....	156	4 62
	West. U. Tel. Co.....	Teleg. service .....	157	7 05
	A. F. Wilcox.....	254 hrs.' labor .....	158	38 10
	C. Woodruff .....	Labor and material .....	159	106 60
	Yost & Packard.....	Architect's service .....	160	100 24
	Webb Sta. & Ptg. Co..	Sundries .....	161	21 10
	J. Weisheimer .....	Grinding corn .....	162	9 90
	Col. Gas Co.....	Gas .....	163	58 43
	Jos. Garretson .....	Salary, June, 1898.....	164	21 00





## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898.				
Aug. 4	Schoedinger, F. & Co..	Hardware .....	219	7 55
	Bausch L. Opt. Co....	Nosepieces .....	220	10 38
	C. T. Pfaff & Co.....	1 shade .....	221	2 50
	W. E. Lamb.....	Labor .....	222	7 35
	H. Gamper .....	" .....	223	5 25
	Edw. Orton .....	Sundries .....	224	15 35
	Col. Gas Co.....	Coke .....	225	77 01
	Monypeny, H. Co....	Brushes and blacking .....	226	4 40
	A. H. Barber Mfg. Co.	Machine parts .....	227	293 29
	B. F. Thomas.....	Aparatus .....	228	42 90
	C. E. Haigh.....	X-ray apparatus .....	229	11 00
	J. B. Colt & Co.....	Apparatus .....	230	65 50
	Kraus, Butler & B. Co.	Shades .....	231	2 50
	Am. Grange Bulletin..	Advertising .....	232	16 80
	Sanders Pubg. Co....	" .....	233	29 40
	C. A. Williams' Studio.	Prints .....	234	3 12
	J. Dewey & Co.....	Lumber .....	205	6 55
	Davis & Son.....	Gate and fence .....	236	14 10
	Jo. Com. Med. & V. A.	Books .....	237	24 00
	Hausman & Dunn....	Instruments .....	238	9 35
	Harper Ill. Syn.....	Adv. cuts .....	239	16 45
	W. H. Scott.....	Expenses Ohio Coll. Ass'n.	240	10 50
	Domestic Laundry ..	Laundrying .....	241	63
	Webb Sta. & Ptg. Co..	Stationery .....	242	66 00
	India Alkali Wks....	Savogran .....	243	19 18
	T. E. French.....	Lettering ctfs.....	244	1 80
	G. W. Knight.....	Expenses visit High School.	245	1 75
	Col. Sewer Pipe Co..	Drain tile .....	246	16 61
	Cent. U. Tel. Co.....	Telephone service .....	247	64 50
	Cher. Ptg. & Eng. Co..	Rubber stamps .....	248	1 00
	Standard Oil Co.....	Oil .....	249	30 60
	Tracy Wells Co.....	Mops, etc.....	250	6 00
	R. L. Polk & Co.....	City directory .....	251	5 00
	J. Q. Adams.....	Plumbers' supplies .....	252	40
	Am. Dist. Tel. Co....	Signal boxes .....	253	27 00
	Seraphim B. Book Co.	Books and blanks .....	254	123 95
	G. E. Stechert.....	Books .....	255	194 88
	E. H. Barton.....	Labor .....	256	16 00
	Mathias Keith, Sr....	" .....	257	18 40
	J. Penn.....	Drayage .....	258	1 25
	Am. Trot. Reg. Assn..	Year books .....	259	16 50
	Boston Book Co.....	Books .....	260	70 74
	A. E. Loeb.....	Labor .....	261	29 57
	A. H. Smythe.....	Office supplies .....	262	9 50
	Ohio Furn. Co.....	Mirror .....	263	1 00
	The Globe Co.....	Drawer cards .....	264	3 50
	Boston Book Bdg. Co..	Binding .....	265	1 25
	E. Thompson Co.....	Books .....	266	42 00
	Robt. Clarke Co.....	" .....	267	10 00
	West Pub. Co.....	Magazines .....	268	37 50
	Helman, Taylor Co....	Books .....	269	20 76
	Macmillan & Co.....	" .....	270	1 00
	Burrows Bros. Co....	" .....	271	17 49
	Rubel Bros .....	" .....	272	2 50
	Tuttle, M. & Taylor...	Magazine .....	273	75
	J. Hopkins Press.....	Books .....	274	75
	D. Appleton & Co....	" .....	275	5 00

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898.				
Aug. 4	L. C. Riddle.....	Labor .....	276	17 25
	Payne, McD. Hdw. Co.	Hardware .....	277	16 73
	H. E. Brown & Sons..	Printing .....	278	6 90
	Col. Brass Co.....	Closet fixtures .....	279	20 60
	Palmer & Beck.....	Labor and material .....	280	107 55
	M. P. Streett .....	" .....	281	146 45
	Watertown St. Eng. Co	Shieve .....	282	60
	A. F. Hall.....	Labor .....	283	31 50
	F. A. Fish.....	" .....	284	19 05
	G. R. Bott.....	" .....	285	5 25
	J. T. Frankenburg....	" .....	286	10 45
	Chas. Voght .....	Painting and papering .....	287	56 00
	E. Huffer .....	Labor .....	288	24 00
	Geo. Trowbridge .....	" .....	289	17 13
	C. H. Woodruff.....	Labor and material .....	290	467 39
	G. W. McNabb.....	Gasoline .....	291	64
	Schaffer & Budenberg.	Counter .....	292	16 00
	F. A. Faunce.....	Painting and papering .....	293	50 00
	Elec. Appliance Co....	Elec. supplies .....	294	15 40
	Pitts Reduction Co....	Wire .....	295	15 93
	J. J. Gheen.....	Plastering .....	296	16 30
	McClelland & Co.....	Office supplies .....	297	2 90
	J. M. & W. Westwater.	Elect. fixtures .....	298	20 00
	Cap. City Mch. Wks..	Machine parts .....	299	13 31
	Cent. Ohio Paper Co..	Stationery .....	300	39 64
	H. Braun Sons & Co..	Instruments and drugs....	301	22 74
	A. S. W. Huffman.....	Plumbers' supplies .....	302	13 90
	Col. Rubber & B. Co..	Mdse .....	303	14 19
	Miller Furn. Co.....	Furniture .....	304	20 50
	Col. Supply Co.....	Hdwe .....	305	450 73
	Murray City Coal Co..	Coal .....	306	15 79
	E. C. Livenspire.....	Horseshoeing, etc.....	307	9 00
	L. Fink .....	Papering .....	308	10 19
	J. Boyd .....	Truck .....	309	1 05
	R. McClure .....	Cases .....	301	47 55
	B. D. Potts.....	Pipe .....	311	35 85
	S. T. Hallsman.....	Painting .....	312	5 70
	J. Weisheimer .....	Grinding .....	313	6 20
	A. H. Taft.....	Bailing straw .....	314	53 72
	C. B. Steward.....	Meals .....	315	13 00
	W. A. Stephens.....	Horse training .....	316	10 00
	Creamery Pk. Mfg. Co.	Dairy supplies .....	317	103 81
	E. C. Duke.....	Sawing posts .....	318	5 18
	F. B. Mitchell.....	Threshing .....	319	32 98
	D. Bacon .....	Corn .....	320	52 45
	F. S. Johnston.....	Clerical service .....	321	26 05
	Hann & Adair.....	Printing .....	322	165 25
	Frankenberg Bros ..	Files .....	323	5 83
	Nitschke Bros .....	Paper and ptg.....	324	12 00
	Blackw'd, Green & Co.	Hdwe .....	325	21 38
	A. F. Wilcox.....	Labor .....	326	45 30
	G. D. Cross Lum. Co..	Lumber .....	327	7 68
	J. Patterson .....	Machine parts .....	328	90
	Crys. Ice M. & C. S. Co	Ice .....	329	1 20
	Jas. McOwen.....	Labor .....	330	16 15
	J. M. Leammon.....	Labor and team .....	331	16 50

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898.				
Aug. 4	B. M. Pierce.....	Labor .....	332	50
	C. C. Hayden.....	" .....	333	88
	C. N. Mooney.....	" .....	334	11 93
	H. L. Belden.....	" .....	335	7 50
	A. F. Conradi.....	" .....	336	6 44
	W. H. Gilmore.....	" .....	337	12 50
	J. C. Perry.....	" .....	338	2 38
	J. S. Teter.....	" .....	339	16 44
5	R. M. Rownd.....	Postage .....	340	20 00
13	C. A. Dye.....	Labor in store-room .....	341	78 00
	E. E. Harrold.....	" .....	342	60 00
8	Col. Gas Co.....	Gas .....	343	28 28
	T. L. Griffin.....	Sal. as ass't in Ceramics... ..	344	105 00
10	F. W. Prentiss.....	Bill Ex. G. Fock, books... ..	345	5 26
27	W. C. Mills.....	Sal. for July and Aug., 1898 ..	346	50 00
	J. H. Canfield.....	Salary for Aug., 1898.....	347	500 00
	Alexis Cope .....	" .....	348	187 50
	W. C. McCracken.....	" .....	349	150 00
	C. E. Barnet.....	" .....	350	65 00
	J. Blackford .....	" .....	351	54 17
	E. D. Cockins.....	" .....	352	58 33
	F. W. Prentiss.....	" .....	353	33 33
	Mrs. E. R. Hubler....	" .....	354	10 00
	Chas. Law .....	" .....	355	54 17
	Wm. Standley .....	" .....	356	50 00
	Benj. Lebay .....	" .....	357	50 00
	Geo. Rose .....	" .....	358	65 00
	H. Martz .....	" .....	359	45 00
	Jas. Kelley .....	" .....	360	35 00
	A. Chantler .....	" .....	361	40 00
	J. Brown .....	" .....	362	40 00
	T. Osborn .....	" .....	363	40 00
	D. D. Geren .....	" .....	364	40 00
	W. Whitestine .....	" .....	365	40 00
	H. Chantler .....	" .....	366	40 00
	J. Conrad .....	" .....	367	40 00
	M. N. Cook.....	" .....	368	40 00
	W. Trowsell.....	" .....	369	20 00
	F. J. Tyler .....	" .....	370	40 00
	A. G. McCall.....	" .....	371	20 00
	J. C. Perry.....	" .....	372	8 33
Sept. 5	Smith Premier Co....	1 type writer and table.....	373	75 00
	W. I. Chamberlain....	Exp. com. meet'g this day..	374	10 50
6	T. J. Godfrey.....	" .....	375	9 50
9	Col. Gas Co.....	Gas .....	376	26 62
	J. C. Eno.....	Labor .....	377	6 25
	C. C. Wilcox.....	" .....	378	3 75
	H. Geren .....	" .....	379	3 75
	A. B. Myers.....	" .....	380	2 50
	A. Fleischer .....	" .....	381	1 00
	F. E. Fleischer.....	" .....	382	17 31
	K. Nurian .....	" .....	383	13 25
	J. H. Burgess.....	" .....	384	12 13
	R. Fitts.....	" .....	385	19 35
	H. L. Belden.....	" .....	386	21 31
	A. F. Wilcox.....	" .....	387	37 95



## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898. Sept. 9	C. N. Mooney.....	Labor .....	388	31 27
	J. S. Teter.....	" .....	389	33 00
	W. H. Gilmore.....	" .....	390	26 63
	D. Donovan .....	Labor and team .....	391	148 20
	R. H. Cunningham ...	Labor .....	392	12 03
	J. L. Roberts.....	" .....	393	8 72
	Peacock & King.....	Paper .....	394	30 34
	J. H. Randall.....	Carpentry .....	395	10 00
	Burgess S. Furn. Co..	Repairs .....	396	75
	Sherwood Mfg. Co....	Cleaner .....	397	35 00
	Griffing Iron Co.....	Radiators .....	398	106 50
	W. E. Case.....	Labor .....	399	10 50
	W. Britton .....	" .....	400	10 50
	Mitchell & Son.....	Marble .....	401	14 00
	Bourne & K. Mfg. Co.	Gaskets .....	402	3 13
	F. A. Faunce.....	Painting .....	403	25 00
	The M. C. Lilley & Co.	Mdse .....	404	2 25
	Col. Sew. Pipe Co....	Sewer pipe .....	405	3 44
	J. C. Perry.....	Sal. for Aug., 1898, bal....	406	4 17
	M. P. Streett.....	Masonry .....	407	20 40
	Jas. Stainbrook .....	Cleaning boiler .....	408	25 00
	Manhattan Concrete Co	Slate .....	409	51 84
	L. M. Ferguson.....	Rugs .....	410	14 00
	F. F. Bonnet.....	Clocks .....	411	8 75
	C. T. Phillips.....	Paper .....	412	53 45
	Col. Pt. Mfg. Co.....	Mdse .....	413	64 87
	McAllister, M. & Co..	Chairs .....	414	93 88
	J. W. Coulson & Co..	Paper paste .....	415	9 50
	J. E. Deeter.....	Moving barn .....	416	55 00
	Col. Rubber & B. Co..	Supplies .....	417	197 00
	Lewis Fink.....	Picture rail .....	418	3 48
	Chas. Vogt .....	Painting and papering .....	419	347 64
	J. J. Gheen.....	Plastering .....	420	17 00
	Col. Brass Co.....	Supplies .....	421	125 28
	Murray Iron Works...	Hdwe .....	422	153 39
	C. R. Hall.....	Labor .....	423	11 97
	H. Judd .....	Carpentry .....	424	20 25
	C. E. Barnet.....	Amanuensis work .....	425	7 12
	Miller Furn. Co.....	Stools .....	426	3 25
	Jones & Laughlin...	Steel .....	427	5 58
	Fkl. Toilet Sup. Co....	Laundrying .....	428	1 25
	W. Atkinson .....	Clerical work .....	429	1 20
	H. Cole .....	Parchment .....	430	1 00
	Jeffrey Mfg. Co.....	Rope .....	431	6 04
	E. H. Bailey.....	Labor .....	432	1 80
	W. A. Knight.....	Labor in lab.....	433	12 00
	W. Erdman.....	Carpentry .....	434	4 55
	Builders Iron Fdy....	Venturi tube .....	435	75 00
	Dunn, Taft & Co.....	Plush .....	436	1 11
	T. Buchanan Co.....	Machinery .....	437	4 92
	L. S. Starrett Co....	Tools .....	438	18 49
	J. Wilckes .....	Econometer .....	439	65 00
	C. Riddle .....	Clerical work .....	440	1 35
	W. Bohannon .....	Locks .....	441	91
	Simmons Hdw. Co....	Hdwe .....	442	57 65
	J. E. Wing.....	Model of barn .....	443	6 00

## STATEMENT II -- Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898.				
Sept. 9	Deering Harvester Co.	Tools .....	443	58 79
	J. Weisheimer .....	Grinding corn .....	445	2 50
	S. T. Hallsman .....	Painting .....	446	24 30
	S. Hard .....	Corn .....	447	20 05
	Kilbourne & J. Mfg. Co.	Cart .....	448	6 50
	W. L. Whitehead .....	Cows .....	449	90 00
	J. H. Canfield .....	Cow .....	450	40 00
	J. Breck & Sons .....	Rake .....	451	67
	K. F. Kellerman .....	Labor on herbarium .....	452	12 30
	Cent. Ohio Paper Co.	Paper .....	453	28 80
	E. Leitz .....	Microscope .....	454	112 50
	L. C. Riddle .....	Mounting plants .....	455	21 00
	C. Bradley .....	Repairs .....	456	90
	C. Garner .....	Corn .....	457	16 28
	R. A. McClure .....	Sterilizer .....	458	24 00
	E. C. Livenspire .....	Horseshoeing .....	459	11 40
	R. J. Seymour .....	I. R. stamps .....	460	12 00
	E. C. Kissinger .....	Lime .....	461	4 10
	W. Burdell, Jr. ....	Harness .....	462	23 90
	F. S. Johnston .....	Clerical work .....	463	32 40
	H. S. King .....	Labor .....	464	36 08
	Beck & Orr .....	Blank books .....	465	3 00
	L. E. Wilson .....	Labor .....	466	33 18
	E. E. Harrold .....	Work in store-room .....	467	40 00
	C. A. Dye .....	" .....	468	32 00
	A. F. Fenstermaker ..	Papering and ptg .....	469	23 75
	Am. Battery Co. ....	Elect. supplies .....	470	19 08
	J. A. Brashar .....	Cleaning instruments .....	471	5 00
	F. F. Howard .....	Work in library .....	472	4 50
	P. Hutton .....	" .....	473	6 00
	Downing & Co. ....	Book .....	474	12 36
	Olive Jones .....	Charges adv. on books .....	475	2 00
	Taylor Mant. & G. Co.	Book cases .....	476	170 00
	Z. L. White & Co. ....	Screen .....	477	3 00
	C. Wilcox .....	Work in library .....	478	6 00
	Orange Judd & Co. ....	Advertising .....	479	15 00
	M. V. Dick Mgr. ....	" .....	480	10 00
	Westbote Co. ....	Printing .....	481	133 49
	Nat. Stockman & F. ...	Advertising .....	482	50 40
	C. W. Harper .....	Advertising cuts .....	483	1 50
	D. C. Beggs Co. ....	Oil cloth .....	484	75
	G. Bruder .....	Salary band leader .....	485	30 00
	R. J. Seymour .....	Guide service .....	486	5 25
	F. C. McKinney .....	" .....	487	20 00
	W. Bebb .....	Painting .....	488	86 00
	Mrs. E. R. Hubler .....	Clerical work .....	489	7 25
	W. H. Siebert .....	Expenses trip for library ..	490	26 93
	Col. Dispatch .....	Advertising .....	491	90
	O. S. Journal .....	" .....	492	75
	W. S. Orvis .....	Mineral ink .....	493	90
	Webb Sta. & Ptg. Co. ..	Mdse .....	494	25 00
	J. M. & W. Westwater.	Burners .....	495	2 00
	Nitschke Bros .....	Printing .....	496	37 10
	Kauffman Lattimer Co.	Disinfectant .....	497	42 00
	Cent. U. Tel. Co. ....	Telephone service .....	498	11 60
	Smith P. Typewr. Co. ..	Repairs .....	499	3 75

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898. Sept. 9	Postal Tel. Cable Co..	Telegr. service .....	500	25
	Am. Dist. Tel. Co.....	Fire alarm boxes .....	501	32 50
	W. U. Tel. Co.....	Telegraph service .....	502	4 52
	J. A. Erner & Co.....	Elec. supplies .....	503	3 87
	Penna. Fuel Co.....	Coal .....	504	8 40
	Pitts. Clay Mfg. Co...	Pipe cover .....	505	9 75
	Golding & Sons Co...	Pebbles .....	506	4 50
	Bonnot & Co.....	Repairs .....	507	10 00
	E. Orton, Jr.....	Labor .....	508	25 87
	Cap. City Mch. Wks..	Tools, hdwe, etc.....	509	189 82
	J. C. Perry.....	Labor .....	510	13 64
	Col. Supply Co.....	Supplies .....	511	116 35
	Tallmadge Hdw. Co..	Hdwe supplies .....	512	30 56
	Blackw'd, Green & Co.	" .....	513	60 25
	Stitt, Price & Co.....	Clay and lime .....	514	2 50
	Engelke & Bigelow...	Freight and cartage .....	515	24 93
	C. H. Woodruff.....	Carpentry .....	516	61 25
	G. W. Towbridge.....	" .....	517	63 00
	Schoedinger, F. & Co..	Tools and hdwe.....	518	12 25
	B. D. Potts.....	Hdwe .....	519	239 90
	Acme Paving Co.....	Paving .....	520	105 12
	Palmer & Beck.....	Spouting, etc.....	521	49 53
	F. Brewer .....	Labor .....	522	18 00
	T. Boude .....	" .....	523	12 00
	Standard Oil Co.....	Oil .....	524	9 64
	Kelton & Converse...	Lumber .....	525	23 43
	Champlin Ptg. Co.....	Printing .....	526	44 86
	Flint & W. Mfg. Co...	Tank .....	527	27 53
	Elliot & Maclean.....	Lumber .....	528	34 65
	A. H. Smythe.....	Office supplies .....	529	23 00
	F. Charles .....	Freight and cartage .....	530	7 77
	J. B. Colt & Co.....	Lantern .....	531	25 00
	J. Garretson .....	Sal. for Aug., 1898.....	532	38 25
14	R. C. Purdy.....	Chargeable to scholarship in Ceramics .....	533	11 50 •
15	W. D. Gibbs.....	Salary for summer, 1898...	534	100 00
16	R. M. Rownd, P. M...	Postage .....	535	10 00
	C. H. Woodruff.....	Fitting up chem. lab.....	536	200 00
17	M. J. Kellenberger...	Asst. dept. dom. scie.....	537	4 75
	H. A. Weber.....	Salary for Sept., 1898...	538	225 00
19	A. C. Purdy.....	Ceramics scholarship .....	539	5 00
21	J. McL. Smith.....	Exp. meet'g, 21 Sept.....	540	6 50
	W. I. Chamberlain...	" .....	541	13 30
	L. B. Wing.....	" .....	542	14 15
24	W. C. Weir.....	Sal. Sept. inst., 1898.....	543	20 00
	J. H. Canfield.....	Salary for Sept., 1898.....	544	500 00
	Alexis Cope .....	" .....	545	187 50
	C. E. Barnet.....	" .....	546	65 00
	Jean Blackford.....	" .....	547	54 17
	E. D. Cockins.....	" .....	548	58 33
	W. C. McCracken.....	" .....	549	150 00
22	T. F. Hunt.....	Salary Sept. 1898, inst.....	550	250 00
24	D. A. Kohr.....	" .....	551	10 00
22	A. M. Bliele.....	" .....	552	225 00
	W. A. Kellerman.....	" .....	553	225 00
	W. McPherson .....	" .....	554	225 00



## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898. Sept. 22	C. N. Brown.....	Salary, Sept. 1898, inst. ....	555	225 00
	A. C. Barrows.....	" " " " " " " " " " " "	556	225 00
	Edw. Orton .....	" " " " " " " " " " " "	557	225 00
	E. A. Eggers.....	" " " " " " " " " " " "	558	225 00
	J. R. Smith.....	" " " " " " " " " " " "	559	225 00
	G. W. Knight.....	" " " " " " " " " " " "	560	225 00
	W. R. Lazenby.....	" " " " " " " " " " " "	561	225 00
	F. E. Sanborn.....	" " " " " " " " " " " "	562	225 00
	S. C. Derby.....	" " " " " " " " " " " "	563	225 00
	W. F. Hunter.....	" " " " " " " " " " " "	564	225 00
	R. D. Bohannon.....	" " " " " " " " " " " "	565	225 00
	W. T. Magruder.....	" " " " " " " " " " " "	566	225 00
	J. P. Gordy.....	" " " " " " " " " " " "	567	225 00
	W. H. Scott.....	" " " " " " " " " " " "	568	225 00
	B. F. Thomas.....	" " " " " " " " " " " "	569	225 00
	J. V. Denney.....	" " " " " " " " " " " "	570	225 00
	B. L. Bowen.....	" " " " " " " " " " " "	571	225 00
21	H. Osborn .....	" " " " " " " " " " " "	572	225 00
	N. W. Lord.....	" " " " " " " " " " " "	573	200 00
	F. A. Ray.....	" " " " " " " " " " " "	574	200 00
	G. B. Kauffman.....	" " " " " " " " " " " "	575	200 00
	E. Orton, Jr.....	" " " " " " " " " " " "	576	180 00
	J. N. Bradford.....	" " " " " " " " " " " "	577	180 00
	G. W. McCoard.....	" " " " " " " " " " " "	578	160 00
	H. C. Lord.....	" " " " " " " " " " " "	579	160 00
	E. A. Hitchcock.....	" " " " " " " " " " " "	580	150 00
	C. P. Linhart.....	" " " " " " " " " " " "	581	160 00
	D. S. White.....	" " " " " " " " " " " "	582	150 00
	W. D. Gibbs.....	" " " " " " " " " " " "	583	140 00
	P. G. Bowman.....	" " " " " " " " " " " "	584	140 00
	F. C. Caldwell.....	" " " " " " " " " " " "	585	140 00
	F. C. Clark.....	" " " " " " " " " " " "	586	135 00
	W. H. Page.....	" " " " " " " " " " " "	587	135 00
	S. A. Norton.....	" " " " " " " " " " " "	588	120 00
	R. I. Fulton.....	" " " " " " " " " " " "	589	120 00
	W. H. Siebert.....	" " " " " " " " " " " "	590	120 00
	O. B. Jones.....	" " " " " " " " " " " "	591	120 00
	J. E. Boyd.....	" " " " " " " " " " " "	592	120 00
	E. B. Kinkead.....	" " " " " " " " " " " "	593	110 00
	J. R. Taylor.....	" " " " " " " " " " " "	594	110 00
	C. E. Sherman.....	" " " " " " " " " " " "	595	100 00
	T. E. French.....	" " " " " " " " " " " "	596	100 00
	C. W. Mesloh.....	" " " " " " " " " " " "	597	100 00
	C. L. Arnold.....	" " " " " " " " " " " "	598	100 00
	K. D. Swartzel.....	" " " " " " " " " " " "	599	100 00
	A. W. Hodgman.....	" " " " " " " " " " " "	600	100 00
	W. A. Knight.....	" " " " " " " " " " " "	601	95 00
	C. W. Weick.....	" " " " " " " " " " " "	602	95 00
	C. C. Sleffel.....	" " " " " " " " " " " "	603	95 00
	J. H. Schaffner.....	" " " " " " " " " " " "	604	90 00
	C. W. Foulk.....	" " " " " " " " " " " "	605	90 00
	J. A. Bownocker.....	" " " " " " " " " " " "	606	90 00
	C. A. Dye.....	" " " " " " " " " " " "	607	90 00
	W. L. Graves.....	" " " " " " " " " " " "	608	90 00
	J. S. Hine.....	" " " " " " " " " " " "	609	85 00
	F. L. Landacre.....	" " " " " " " " " " " "	610	85 00

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898. Sept. 21	A. E. Vinson.....	Salary, Sept. 1898, inst.....	611	80 00
	E. N. Van Harlingen..	" " .....	612	80 00
	M. P. Brush.....	" " .....	613	80 00
	C. Wissler.....	" " .....	614	80 00
	S. M. Elliott.....	" " .....	615	75 00
	E. O. Randall.....	" " .....	616	70 00
	D. F. Pugh.....	" " .....	617	70 00
	E. E. Harrold.....	" " .....	618	70 00
	N. H. Brown.....	" " .....	619	70 00
	E. E. Sommermeier....	" " .....	620	65 00
	F. Ruhlen.....	" " .....	621	60 00
	T. F. Lewis.....	" " .....	622	60 00
24	A. F. Hall.....	" " .....	623	60 00
	W. F. Lavery.....	" " .....	624	60 00
	C. B. Fredericks.....	" " .....	625	60 00
	H. Townshend.....	" " .....	626	55 00
	J. F. Cunningham.....	" " .....	627	54 00
	R. E. McIntosh.....	" " .....	628	10 00
	G. D. Kellicott.....	" " .....	629	50 00
	M. D. Jeffrey.....	" " .....	630	50 00
	F. K. Luke.....	" " .....	631	48 00
	D. C. Huddleson.....	" " .....	632	50 00
	A. V. Bleininger.....	" " .....	633	40 00
	M. Dresbach.....	" " .....	634	30 00
	F. A. Fish.....	" " .....	635	30 00
	A. H. McIntire.....	" " .....	636	30 00
	E. L. Ball.....	" " .....	637	30 00
	S. E. Rasor.....	" " .....	638	30 00
	H. Judd.....	" " .....	639	30 00
	F. J. Hale.....	" " .....	640	30 00
	J. B. Parker.....	" " .....	641	30 00
	E. L. Fullmer.....	" " .....	642	25 00
	Robt. Fischer.....	" " .....	643	25 00
	F. O. Clements.....	" " .....	644	25 00
	G. W. Knight.....	" " .....	645	25 00
	W. F. Hunter.....	" " .....	646	25 00
	A. G. McCall.....	" " .....	647	24 00
	L. Allen.....	" " .....	648	40 00
	O. V. Brumley.....	" " .....	649	20 00
	F. F. D. Albery.....	" " .....	650	15 00
	J. H. Collins.....	" " .....	651	10 00
	F. W. Prentiss.....	Salary Sept., 1898.....	652	33 33
	Mrs. E. R. Hubler.....	" " .....	653	20 00
	W. C. Mills.....	" " .....	654	25 00
	Chas. Low.....	" " .....	655	54 17
	W. Standley.....	" " .....	656	50 00
	B. Lebay.....	" " .....	657	50 00
	B. F. Maag.....	" " .....	658	30 00
	T. Boude.....	" " .....	659	45 00
	M. Peck.....	" " .....	660	40 00
	Geo. Rose.....	" " .....	661	65 00
	H. Martz.....	" " .....	662	45 00
	J. Kelly.....	" " .....	663	35 00
	A. Chantler.....	" " .....	664	40 00
	T. S. Edgington.....	" " .....	665	40 00
	J. F. Longman.....	" " .....	666	40 00

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898.				
Sept. 24	J. H. Brown.....	Salary Sept., 1898.....	667	40 00
	D. D. Geren.....	" ".....	668	40 00
	T. E. Osborn.....	" ".....	669	40 00
	W. Whitestone.....	" ".....	670	40 00
	H. Chantler.....	" ".....	671	40 00
	W. Townsell.....	" ".....	672	25 00
	J. C. Perry.....	" ".....	673	12 50
	J. Conrad.....	" ".....	674	40 00
	M. N. Cook.....	" ".....	675	40 00
	G. W. Elwell.....	Salary Sept., 1898, inst....	676	40 00
	D. Flanagan.....	Refund of fees.....	677	7 50
	R. C. Purdy.....	Salary Sept., 1898, inst....	678	20 00
	Mrs. M. J. Kellenberger	" week end'g Sept. 20.	679	4 00
	E. H. Bailey.....	" Sept., 1898, inst....	680	15 00
	R. M. Rownd, P. M....	Stamps.....	681	8 50
	V. E. Kellicott.....	Coll. of Odonata.....	682	300 00
	Paul Jones.....	Exp. meet'g trustees.....	683	5 45
	J. H. Vosskuehler.....	Salary Sept., 1898, inst....	684	30 00
29	Mrs. M. J. Kellenberger	" week end'g Sept. 29, 1898.....	685	4 00
Oct. 1	W. G. Worcester.....	Refund of fees, soldier....	686	4 00
	J. Garretson.....	Salary Sept., 1898.....	687	36 00
3	R. M. Rownd, P. M....	Postage for library.....	688	25 00
4	R. J. Seymour.....	Int. Rev. stamps.....	689	10 00
8	F. J. Pavlicek.....	Guide and mess. service....	690	7 00
	F. C. McKinney.....	" ".....	691	6 25
	M. Snow.....	" ".....	692	1 00
	F. R. West.....	" ".....	693	6 75
	Press Post Ptg. Co....	Advertising.....	694	2 25
6	Mrs. M. J. Kellenberger	Services as maid.....	695	4 00
8	Cent. Ohio Oil Co....	Grease.....	696	3 25
	Col. Dispatch.....	Advertising.....	697	1 50
	O. S. Journal Co.....	".....	698	1 50
	Cher. Ptg. & Eng. Co..	Dater.....	699	1 00
	Quinjus & Ridenour...	Files.....	700	1 00
	Tracy Wells Co.....	Brooms, etc.....	701	21 32
	Southard Ptg. Co.....	Printing.....	702	1 50
	West. Union Tel. Co..	Telegrams.....	703	3 57
	Cent. U. Tel. Co.....	Telephone service.....	704	75 73
	Mrs. E. R. Hubler.....	Clerical work.....	705	15 25
	A. McLaughlin.....	" ".....	706	6 37
	Postal Tel. Cable Co..	Telegraph service.....	707	1 96
	Am. Dist. Tel. Co....	Signal box rent.....	708	27 00
	W. S. Orvis.....	Mimeo paper.....	709	1 75
	Standard Oil Co.....	Oil.....	710	7 46
	Eaton Mch. Wks.....	Forging.....	711	2 85
	Webb Ptg. & Sta. Co..	File boxes.....	712	24 50
	J. W. Bannon.....	Printing brief.....	713	28 00
	Kilbourne Jones Co..	Hardware.....	714	50
	H. J. Holcomb.....	Painting.....	715	9 00
	Batterson Dec. House.	Decorating rooms.....	716	128 00
	D. Spencer & Son....	Carpentry and masonry....	717	104 00
	Battle Cr. St. Pum. Co.	Valve regulator.....	718	55 00
	J. Schofield.....	Paints.....	719	4 75
	C. T. Phillips.....	Paper and supplies.....	720	4 03
	W. H. Peters.....	Papering.....	721	25 00



## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898.				
Oct. 8	F. F. Bonnet.....	Clock .....	722	5 00
	J. J. Gheen.....	Plastering .....	723	25 50
	W. Atkinson .....	Labor .....	724	2 61
	Peacock & King.....	Paper .....	725	5 16
	Col. Brass Co.....	Urinal .....	726	14 10
	Richmond Chair Co...	Chairs .....	727	168 13
	F. Charles .....	Freight and drayage .....	728	75
	G. R. Bott.....	Labor .....	729	2 75
	F. A. Fish.....	" .....	730	5 20
	W. Morelan.....	Carpentry .....	731	1 20
	F. W. Taylor.....	Labor .....	732	60
	Wheeler Con. & En. Co	Tubes .....	733	2 80
	Weekly Law Bulletin..	Advertising .....	734	25 00
	O. T. Corson.....	" .....	735	22 50
	Lawrence Pub. Co....	" .....	736	68 04
	R. R. Bowker.....	Books .....	737	7 00
	Dodd, Mead & Co....	" .....	738	35 00
	Library Bureau .....	Library supplies .....	739	6 50
	G. E. Stechert.....	Books .....	740	122 63
	Am. Trot. Reg. Assn..	" .....	741	3 00
	Globe Co .....	Library furniture .....	742	24 60
	H. H. Ballard.....	Slip binders .....	743	1 03
	Gaylord Bros .....	Paper .....	744	35
	J. Hertner .....	Labor .....	745	2 94
	Boston Book Co.....	Journals .....	746	61 00
	Burrows Bros. Co....	Books .....	747	256 47
	Seraphim Blank Bk. Co	Binding .....	748	170 90
	H. S. Belden.....	Labor .....	749	9 31
	J. Phillips .....	" .....	750	1 12
	D. W. Galehouse.....	" .....	751	1 25
	J. C. Long.....	" .....	752	1 25
	S. Meiche .....	" .....	753	2 50
	A. H. Snyder.....	" .....	754	1 25
	J. R. Greenlee.....	" .....	755	1 43
	H. A. Clark.....	" .....	756	1 94
	E. C. Cotton.....	" .....	757	1 87
	E. W. Nettleton.....	" .....	758	1 25
	L. A. Kolbe.....	" .....	759	1 18
	J. W. Brinker.....	" .....	760	1 25
	J. S. Jones.....	" .....	761	1 25
	A. E. Day.....	" .....	762	5 50
	W. Atherton .....	" .....	763	1 62
	J. G. Ridinger.....	" .....	764	62
	L. C. Hoover.....	" .....	765	62
	R. J. Palmer.....	" .....	766	1 25
	J. H. Burgess.....	" .....	767	5 87
	J. S. Teter.....	" .....	768	10 62
	W. H. Gilmore.....	" .....	769	5 00
	R. Fitts .....	" .....	770	8 25
	I. I. Eno.....	" .....	771	5 62
	K. Nurain .....	" .....	772	8 12
	C. Mooney .....	" .....	773	9 30
	A. F. Wilcox.....	" .....	774	40 50
	J. C. Perry.....	" .....	775	2 62
	A. Fleischer .....	" .....	776	12 50
	J. L. Roberts.....	" .....	777	62

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898.				
Oct. 8	D. Donavin .....	Labor .....	778	30 00
	Fritsch Mfg. Co.....	Grate .....	779	2 50
	Acme Pav. Co.....	Pavement .....	780	15 00
	E. H. Barton.....	Carpentry .....	781	2 25
	M. Keith, Sr.....	" .....	782	1 75
	Fitzpatrick & Hoepfner	Balance, steam heating .....	783	15 00
	S. H. Ruhlen.....	Seed .....	784	17 50
	A. Speare's Sons & Co.	Asbestine .....	785	4 00
	Miller Furn. Co.....	Mirrors .....	786	12 00
	G. W. Clarke & Co....	Lumber .....	787	4 00
	Cross Lumber Co.....	" .....	788	5 94
	Wm. Burdell, Jr.....	Harness .....	789	9 20
	C. S. Bradley.....	Milk can .....	790	2 25
	J. H. Canfield.....	Hay .....	791	9 00
	Star Milk Cooler Co..	Strainer .....	792	6 40
	F. S. Johnston.....	Clerical work .....	793	24 60
	J. Dewey & Co.....	Lumber .....	794	56 25
	J. Weisheimer .....	Cob meal .....	795	21 50
	L. Hoster Brew. Co....	Sprouts .....	796	4 52
	G. W. McNall.....	Soap .....	797	4 02
	Murray City Coal Co..	Coal .....	798	28 59
	J. H. Zinn.....	Lumber .....	799	10 79
	Spencer Lens Co.....	Microscopes .....	800	120 80
	H. Cole .....	Geisler tubes .....	801	6 00
	J. P. Friez.....	Thermos .....	802	9 25
	Fauth & Co.....	Repairs .....	803	10 75
	Landon Ptg. & Pub. Co	Printing .....	804	1 75
	W. C. Mills.....	Postage .....	805	2 79
	E. C. Kissinger.....	Sand .....	806	3 00
	E. T. Jenks.....	Locks .....	807	10 00
	F. O. Haines.....	Herbarium cases .....	808	229 58
	F. J. Tyler.....	Labor .....	809	4 12
	F. Detmers .....	" .....	810	14 00
	L. C. Riddle.....	" .....	811	10 50
	Scioto Fire Brick Co..	Shade .....	812	1 50
	T. J. Dundon & Co....	Sawdust .....	813	1 00
	E. Orton, Jr.....	Cash adv. for rubber .....	814	50
	J. McAllister .....	Labor .....	815	21 88
	Buff & Berger.....	Transit .....	816	232 25
	Howald & Conklin....	Furniture .....	817	34 50
	Spahr & Glenn.....	Printing .....	818	5 50
	F. C. Clark.....	Cash adv. for drayage .....	819	1 00
	General Elect. Co.....	Ammeter .....	820	11 25
	R. E. McIntosh.....	Labor .....	821	3 50
	J. A. Bownocker.....	Expense collecting tour .....	822	17 35
	Ward's Nat. Sci. Est..	Anatomies .....	723	142 25
	E. G. Webster.....	Labor .....	724	97
	L. E. Wilson.....	" .....	725	17 50
	Hayden's M. & M. Co	Clay .....	726	1 25
	Case Mfg. Co.....	Pulleys .....	727	8 50
	Jas. Foley & Co.....	Oil cans .....	728	4 60
	Starrett & Co.....	Rule .....	729	1 94
	E. A. Kinsey & Co....	Hdw supplies .....	830	38 52
	P. Hayden S. Hdw. Co	Iron .....	831	102 56
	Col. Varnish Co.....	Shellac .....	832	7 00
	Hanna Pt. Mfg. Co....	Paint .....	833	1 90

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898.				
Oct. 8	F. E. Sanborn.....	Postage .....	834	2 65
	F. Huddleson .....	Labor .....	835	1 50
	W. H. Anderson.....	C. C. reports .....	836	26 00
	E. Thompson Co.....	Encyclopædia of Law.....	837	6 00
	W. Wrigley, Jr. & Co..	Book-case .....	838	7 95
	H. Chantler .....	Freight .....	839	1 00
	L. McCormick .....	Frames .....	840	1 75
	A. F. Fenstermaker...	Labor .....	841	47 00
	Shilling Fdy. Co.....	Castings .....	842	3 50
	J. H. Williams.....	Forgings .....	843	3 75
	Jeffrey Mfg. Co.....	Rope .....	844	7 25
	Crosby Stm G. & V. Co.	Instruments .....	845	6 50
	Stitt, Price & Co.....	Cement .....	846	1 00
	G. W. Rightmire.....	Salary Sept., 1898, inst....	847	20 00
	Ashton Valve Co.....	Repairs .....	848	2 66
	J. G. Pulling & Co.....	Spring .....	849	70
	E. Doddington .....	Mdse .....	850	16 69
	M. Grau & Co.....	Pulleys and shafting .....	851	17 14
	Lodge & Shipley.....	Lathe .....	852	295 20
	F. J. Hale.....	Labor .....	853	25 90
	H. Judd .....	" .....	854	33 75
	Dunn, Taft & Co.....	Dry goods .....	855	2 01
	McCallip F. & W. Wks.	Wire screen .....	856	6 40
	E. H. Bailey.....	Labor .....	857	13 35
	E. G. Bailey.....	" .....	858	4 88
	Heller & Co.....	Steel boxes .....	859	3 10
	Lunkenheimer Co.....	Valves .....	860	24 60
	S. Smith .....	Blacking and brushes .....	861	3 10
	E. G. Willyoung & Co.	Sci. instruments .....	862	13 19
	Peacock & King.....	Paper .....	863	7 25
	R. W. Bock.....	Lettering .....	864	2 00
	W. F. Lavery.....	Labor repairing .....	865	33 75
	J. H. McClintock.....	Labor .....	866	30 00
	T. J. O'Neil.....	Mattress .....	867	23 55
	M. J. Bergin Lumb. Co.	Lumber .....	868	8 98
	Lynas Bros .....	Jars .....	869	1 12
	W. F. Mann & Co.....	Grinding .....	870	1 00
	H. B. Brown & Sons..	Printing .....	871	3 75
	A. E. Loeb.....	Labor .....	872	6 95
	M. Staley .....	" .....	873	1 06
	W. E. Case.....	" .....	874	39 75
	Geo. Trowbridge .....	Carpentry .....	875	34 74
	C. H. Woodruff.....	" and material .....	876	97 25
	J. T. Frankenberg.....	Labor .....	877	10 95
	H. R. Powell.....	Clerical work .....	878	11 20
	Fkl. Toilet Sup. Co..	Laundry .....	879	30 16
	A. D. Morely.....	Carpentry .....	880	28 25
	H. M. Andress.....	Labor .....	881	1 68
	W. Erdman .....	" .....	882	9 98
	S. T. Hallsman.....	Painting .....	883	22 50
	J. H. Randall.....	Carpentry .....	884	73 76
	H. Butenschoen .....	Lettering .....	885	9 25
	R. J. Seymour.....	Labor .....	886	15 27
	K. Nurian .....	Salary September, 1898....	887	7 50
	H. Gamper .....	" .....	888	7 50
	Engelke & Bigelow....	Freight and drayage .....	889	63 12

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898.				
Oct. 8	J. L. Trauger.....	Binding .....	890	2 25
	Col. Supply Co.....	Hdwe supplies .....	891	163 87
	Krauss, Butler & B. Co	Matting and shades .....	892	56 60
	C. Vogt .....	Papering and painting .....	893	38 51
	Yardley & Harsh.....	Office supplies .....	894	5 57
	H. Braun Sons & Co...	Oils .....	895	16 57
	Tallmadge Hdw Co...	Hdwe .....	896	100 83
	D. C. Beggs Co.....	Shades and linoleum .....	897	134 61
	McAllister, M. & Co...	Furniture .....	898	106 15
	Cap. City Mch. Wks..	Hdwe .....	899	71 94
	Kelton & Converse...	Lumber .....	900	82 12
	McClelland & Co.....	Stationery .....	901	28 75
	Blackw'd, Green & Co.	Hdwe .....	902	17 34
	Nitschke Bros .....	Printing .....	903	37 78
	J. A. Erner & Co.....	Elec. supplies .....	904	15 68
	Z. L. White & Co.....	Mdse .....	905	3 46
	A. H. Smythe.....	Stationery .....	906	2 50
	Hann & Adair.....	Printing .....	907	90 72
	Payne & McD. Hw. Co.	Hdwe .....	908	105 23
	Schoedinger, F. & Co..	" .....	909	6 43
	J. M. & W. Westwater.	Elect. fixtures .....	910	12 00
	Elliot & Maclean.....	Lumber .....	911	42 99
	Cent. Ohio Paper Co..	Paper .....	912	10 60
	Col. Pt. Mfg. Co.....	Paint .....	913	27 50
	Col. Rubber & B. Co..	Belting and waste .....	914	45 94
	A. W. Livingston's Sns	Seeds .....	915	10 18
	Champlin Ptg. Co.....	Printing .....	916	133 80
	C. W. Harper.....	Illustrating cuts .....	917	4 25
	Col. Gas Co.....	Gas .....	918	54 30
	F. C. Caldwell.....	Salary sup. plant and cash adv .....	919	151 27
	Bausch & Lamb.....	Microscopes .....	920	185 72
	J. T. Martin.....	½ salary June, 1898.....	921	20 00
	F. W. Prentiss.....	B-E. Mayer & Muller....	922	550 32
13	R. M. Rownd, P. M...	Stamps .....	923	4 00
	Col. St. Ry. Co.....	St. car tickets .....	924	5 00
	Col. Water Works....	Water 6 months end. Nov. 1, 1898 .....	925	607 46
17	Mrs. M. J. Kellenberger	Services as maid .....	926	4 00
	O. L. Vandament.....	Labor .....	927	2 09
	J. Mergler .....	" .....	928	1 25
	Lily Weeks .....	Salary Oct. 10-17 .....	929	5 00
20	Mrs. M. J. Kellenberger	" 11-18 .....	930	4 00
25	Lily Weeks .....	" 17-24 .....	931	5 00
26	R. M. Rownd, P. M...	Postage .....	932	49 16
29	J. L. Roberts.....	Fees refunded .....	933	2 00
	C. C. Hayden.....	" .....	934	2 00
	M. F. Miller.....	" .....	935	2 00
	A. G. McCall.....	" .....	936	2 00
	J. H. Canfield.....	Salary Oct. 1898 .....	937	500 00
	Alexis Cope .....	" " .....	938	187 50
	C. E. Barnett.....	" " .....	939	65 00
	F. W. Prentiss.....	" " .....	940	33 33
	Jean Blackford .....	" " .....	941	54 17
	E. D. Cockins.....	" " .....	942	58 33
	T. F. Hunt.....	Salary Oct. 1898, inst.....	943	250 00



## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898. Oct. 29	W. F. Hunter.....	Salary Oct., 1898, inst.....	944	250 00
	G. W. Knight.....	“ “ .....	945	250 00
	W. A. Kellerman.....	“ “ .....	946	225 00
	Wm. McPherson .....	“ “ .....	947	225 00
	C. N. Brown.....	“ “ .....	948	225 00
	A. C. Barrows.....	“ “ .....	949	225 00
	E. Orton, Sr.....	“ “ .....	950	225 00
	E. A. Eggers.....	“ “ .....	951	225 00
	J. R. Smith.....	“ “ .....	952	225 00
	H. A. Weber.....	“ “ .....	953	225 00
	W. R. Lazenby.....	“ “ .....	954	225 00
	F. E. Sanborn.....	“ “ .....	955	225 00
	S. C. Derby.....	“ “ .....	956	225 00
	A. M. Bleile.....	“ “ .....	957	225 00
	A. D. Bohannan.....	“ “ .....	958	225 00
	W. F. Magruder.....	“ “ .....	959	225 00
	J. P. Gordy.....	“ “ .....	960	225 00
	W. H. Scott.....	“ “ .....	961	225 00
	B. F. Thomas.....	“ “ .....	962	225 00
	J. V. Denney.....	“ “ .....	963	225 00
	B. L. Bowen.....	“ “ .....	964	225 00
	H. Osborn .....	“ “ .....	965	225 00
	N. W. Lord.....	“ “ .....	966	200 00
	F. A. Ray.....	“ “ .....	967	200 00
	G. B. Kauffman.....	“ “ .....	968	200 00
	E. Orton, Jr.....	“ “ .....	969	180 00
	J. N. Bradford.....	“ “ .....	970	180 00
	G. W. McCoard.....	“ “ .....	971	160 00
	C. P. Linhart.....	“ “ .....	972	160 00
	H. C. Lord.....	“ “ .....	973	160 00
	E. A. Hitchcock.....	“ “ .....	974	150 00
	D. S. White.....	“ “ .....	975	150 00
	W. D. Gibbs.....	“ “ .....	976	140 00
	P. G. Bowman.....	“ “ .....	977	140 00
	F. C. Caldwell.....	“ “ .....	978	140 00
	F. C. Clark.....	“ “ .....	979	135 00
	W. H. Page.....	“ “ .....	980	135 00
	S. A. Norton.....	“ “ .....	981	120 00
	R. I. Fulton.....	“ “ .....	982	120 00
	W. H. Siebert.....	“ “ .....	983	120 00
	O. B. Jones.....	“ “ .....	984	120 00
	J. E. Boyd.....	“ “ .....	985	120 00
	E. B. Kinkad.....	“ “ .....	986	110 00
	J. R. Taylor.....	“ “ .....	987	110 00
	C. E. Sherman.....	“ “ .....	988	100 00
	T. E. French.....	“ “ .....	989	100 00
	C. W. Mesloh.....	“ “ .....	990	100 00
	C. L. Arnold.....	“ “ .....	991	100 00
	K. D. Swartzel.....	“ “ .....	992	100 00
	A. W. Hodgman.....	“ “ .....	993	100 00
	W. A. Knight.....	“ “ .....	994	95 00
	C. W. Weick.....	“ “ .....	995	95 00
	C. C. Sleffel.....	“ “ .....	996	95 00
	J. H. Schaffner.....	“ “ .....	997	90 00
	C. W. Foulk.....	“ “ .....	998	90 00
	J. A. Bownocker.....	“ “ .....	999	90 00

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898. Oct. 29	C. A. Dye.....	Salary Oct., 1898, inst.....	1000	90 00
	W. L. Graves.....	" " .....	1001	90 00
	J. S. Hine.....	" " .....	1002	85 00
	F. L. Landacre.....	" " .....	1003	85 00
	A. E. Vinson.....	" " .....	1004	80 00
	E. M. Van Harlingen..	" " .....	1005	80 00
	M. P. Brush.....	" " .....	1006	80 00
	Clark Wissler.....	" " .....	1007	80 00
	S. M. Elliott.....	" " .....	1008	75 00
	E. O. Randall.....	" " .....	1009	70 00
	D. F. Pugh.....	" " .....	1010	70 00
	E. E. Harrold.....	" " .....	1011	70 00
	N. H. Brown.....	" " .....	1012	70 00
	E. E. Somermeier.....	" " .....	1013	65 00
	F. Ruhlen.....	" " .....	1014	60 00
	T. K. Lewis.....	" " .....	1015	60 00
	A. F. Hall.....	" " .....	1016	60 00
	W. F. Lavery.....	" " .....	1017	60 00
	C. B. Fredericks.....	" " .....	1018	60 00
	H. Townshend.....	" " .....	1019	55 00
	J. F. Cunningham.....	" " .....	1020	54 00
	G. D. Kellicott.....	" " .....	1021	50 00
	M. D. Jeffrey.....	" " .....	1022	50 00
	A. V. Bleininger.....	" " .....	1023	40 00
	Lucy Allen.....	" " .....	1024	40 00
	M. Dresbach.....	" " .....	1025	30 00
	F. A. Fish.....	" " .....	1026	30 00
	A. H. McIntire.....	" " .....	1027	30 00
	E. L. Ball.....	" " .....	1028	30 00
	S. E. Rasor.....	" " .....	1029	30 00
	H. Judd.....	" " .....	1030	30 00
	F. J. Hale.....	" " .....	1031	30 00
	J. B. Parker.....	" " .....	1032	30 00
	B. J. Maag.....	" " .....	1033	30 00
	J. H. Voskuehler.....	" " .....	1034	30 00
	E. L. Fullmer.....	" " .....	1035	25 00
	Robt. Fischer.....	" " .....	1036	25 00
	F. O. Clements.....	" " .....	1037	25 00
	O. V. Brumley.....	" " .....	1038	20 00
	R. C. Purdy.....	" " .....	1039	20 00
	G. K. Rightmire.....	" " .....	1040	20 00
	E. H. Bailey.....	" " .....	1041	15 00
	F. F. D. Albery.....	" " .....	1042	15 00
	J. H. Colins.....	" " .....	1043	10 00
	D. A. Kohr.....	" " .....	1044	10 00
	R. E. McIntosh.....	" " .....	1045	10 00
	H. Gamper.....	" " .....	1046	7 50
	W. C. McCracken.....	Salary Oct., 1898.....	1047	150 00
	Geo. Rose.....	" " .....	1048	65 00
	Chas. Low.....	" " .....	1049	54 17
	W. Stanley.....	" " .....	1050	50 00
	Benj. LeBay.....	" " .....	1051	50 00
	Thos. Boude.....	" " .....	1052	45 00
	W. H. Case.....	" " .....	1053	45 00
	H. Martz.....	" " .....	1054	45 00
	M. Peck.....	" " .....	1055	40 00

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898.				
Oct. 29	F. K. Luke.....	Salary Oct., 1898.....	1056	32 00
	A. Chantler .....	" " .....	1057	40 00
	J. F. Longman.....	" " .....	1058	40 00
	J. H. Brown.....	" " .....	1059	40 00
	D. D. Geren.....	" " .....	1060	40 00
	W. Whitestone .....	" " .....	1061	40 00
	H. Chantler .....	" " .....	1062	40 00
	Geo. Denney .....	" " .....	1063	40 00
	M. H. Cook.....	" " .....	1064	40 00
	T. S. Edgington.....	" " .....	1065	40 00
	T. E. Osborn.....	" " .....	1066	40 00
	Jas. Kelly .....	" " .....	1067	35 00
	D. C. Huddleson.....	" " .....	1068	50 00
	W. C. Mills.....	" " .....	1069	25 00
	Mrs. E. R. Hubler....	" " .....	1070	20 00
	Wash. Townsell .....	" " .....	1071	25 00
	W. C. Weir.....	" " .....	1072	20 00
	J. C. Perry.....	" " .....	1073	12 50
	G. W. Elwell.....	" " .....	1074	40 00
	A. G. McCall.....	" " .....	1075	16 00
	H. H. Loomis.....	Fees refunded .....	1076	2 00
	Joe Garretson .....	Salary Oct. 1, 29, 1898....	1077	39 00
	K. Nurian .....	" 1898.....	1078	11 25
	Lily Weeks .....	" 24, 31.....	1079	5 00
Nov. 31	Kuhn Art Stone Co...	Est. on cem. work .....	1080	700 00
1	Mrs. M. J. Kellerman.	Services dept. dom. sci....	1081	8 00
2	F. J. Pavlicek.....	Guide and mess. service....	1082	8 00
3	V. Martz .....	" " .....	1083	2 75
	J. F. Travis.....	" " .....	1084	7 87
	F. C. McKinney.....	" " .....	1085	6 62
	M. Snow .....	" " .....	1086	7 37
	F. R. West.....	" " .....	1087	1 75
	Cent. Ohio Oil Co....	Oil .....	1088	9 27
	Alexis Cope .....	Exp. in Page will case ....	1089	2 35
	Press Post Ptg. Co....	Advertising .....	1090	1 50
	W. S. Orvis.....	Mimeograph ink .....	1091	90
	Cent. Ohio Paper Co..	Paper .....	1092	2 00
	Tracy Wells Co....	Sundry notions .....	1093	5 00
	Monypeny Ham'nd Co.	Mdse .....	1094	4 00
	Webb. Sta. & Ptg. Co..	Office supplies .....	1095	4 25
	Jas. Schofield .....	Paint .....	1096	5 00
	H. W. Johns Mfg. Co..	Pipe covering .....	1097	11 00
	J. M. & W. Westwater.	Lights .....	1098	1 20
	W. F. Brown.....	Steam traps .....	1099	33 00
	D'Esté & Seeley Co...	Valve and regulator.....	1100	2 80
	McAllister, M. & Co...	Rattan couch .....	1101	7 50
	P. Beck .....	Hdwe .....	1102	10 96
	Vogelgesang Furn. Co.	Furnaces .....	1103	248 46
	Schiff, Jordan & Co...	Carbons .....	1104	26 25
	Elec. Appliance Co....	Elect. supplies .....	1105	13 25
	Lewis Fink .....	Papering .....	1106	63 75
	Jeffrey Mfg. Co.....	Hardware .....	1107	25 35
	J. S. Abbott & Co....	Glass .....	1108	3 40
	R. E. McIntosh.....	Labor .....	1109	4 16
	D. K. Starbuck.....	" .....	1110	5 06
	M. L. Blöse.....	" .....	1111	4 10

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898.				
Nov. 5	J. Hertner .....	Labor .....	1112	6 88
	M. C. Hunter.....	" .....	1113	11 03
	J. W. Green.....	" .....	1114	1 56
	J. Stainbrook .....	" .....	1115	3 75
	C. Pixler.....	" .....	1116	11 70
	Col. Brass Co.....	Plumbers' supplies .....	1117	24 00
	Agricultural Student ..	Advertising .....	1118	20 00
	L. T. Williams.....	Work in library .....	1119	18 00
	H. B. Farnham.....	" .....	1120	3 30
	Lucy Allen .....	Lettering .....	1121	3 00
	B. Herman .....	Work in library .....	1122	7 40
	E. S. Werner.....	Books .....	1123	15 35
	Boston Book Co.....	" .....	1124	90 00
	Concilio Bibliographico	Division cards .....	1125	14 97
	C. A. Curtis.....	Expansive classification ...	1126	5 00
	Burrows Bros. Bk. Co.	Books .....	1127	72 16
	University Café .....	Dinners for trustees .....	1128	2 75
	E. W. Nettleton.....	Labor .....	1129	3 00
	Roy Rexroth .....	" .....	1130	3 00
	J. C. Mergler.....	" .....	1131	4 50
	R. Fitts .....	" .....	1132	4 72
	J. D. Uncapher.....	" .....	1133	3 03
	T. W. Brinker.....	" .....	1134	1 25
	Lewis Meiche .....	" .....	1135	6 94
	H. S. Belden.....	" .....	1136	5 44
	A. E. Day.....	" .....	1137	5 50
	A. H. Snyder.....	" .....	1138	2 50
	F. E. Hamilton.....	" .....	1139	3 69
	W. H. Gilmore.....	" .....	1140	4 94
	W. W. Trowbridge...	" .....	1141	2 13
	R. M. Ruhlén.....	" .....	1142	1 13
	O. L. Vanlément.....	" .....	1143	7 88
	W. K. Breckenridge...	" .....	1144	5 94
	J. S. Jones.....	" .....	1145	2 06
	Edw. Shaw .....	" .....	1146	2 50
	F. C. Long.....	" .....	1147	3 13
	E. C. Cotton.....	" .....	1148	2 44
	J. C. Perry.....	" .....	1149	2 50
	W. Atherton .....	" .....	1150	2 63
	W. W. Gregory.....	" .....	1151	1 19
	J. W. Brookens.....	" .....	1152	4 75
	J. R. Greenlee.....	" .....	1153	3 56
	A. D. Dickinson Co...	Seed .....	1154	25 25
	E. C. Kissinger.....	Cement .....	1155	1 25
	O. E. Jennings.....	Labor .....	1156	2 00
	R. A. McClure.....	Lumber .....	1157	9 52
	A. F. Wilcox.....	Labor .....	1158	32 40
	I. L. Eno.....	" .....	1159	2 50
	Kauffman Lattimer Co.	Apparatus and for lab. sup..	1160	1,370 65
	F. W. Prentiss.....	B-E. for ac. Max Koehler & M.....	1161	369 81
	Cent. Ohio Paper Co..	Paper .....	1162	4 20
	F. W. Prentiss.....	B-E. ac. Carl Schleicher & S .....	1163	150 08
	Baker & Co.....	Crucibles .....	1164	11 20
	J. Carbutt .....	Photo Plates .....	1165	12 48



## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898.				
Nov. 5	Kimball & Matthews..	Photo Plates.....	1166	47 45
	Green, Joyce & Co....	Towels .....	1167	22 50
	Seeds & Mills.....	Feed .....	1168	103 50
	Schreiber & Sons.....	Lantern slides.....	1169	1 00
	Saunders & Esswein...	Coat hooks .....	1170	11 25
	E. C. Livenspire.....	Smithing .....	1171	8 25
	Kemp & Burpee.....	Repairs .....	1172	1 25
	F. S. Johnston.....	Clerical work .....	1173	13 95
	J. F. Cunningham.....	Postage .....	1174	2 00
	Spahr & Glenn.....	Stationery .....	1175	2 75
	J. R. Cain.....	Labor .....	1176	1 38
	W. H. Peters.....	" and lumber .....	1177	2 50
	F. M. Bownocker.....	" .....	1178	4 19
	R. J. Palmer.....	" .....	1179	5 31
	K. Nurian.....	" .....	1180	2 00
	C. T. Pfaff & Co.....	Glassware .....	1181	1 15
	Cambridge Bot. Sp. Co.	Labels .....	1182	1 04
	Hayden v'le M. & M. Co	Clay .....	1183	3 00
	Baker Mfg. Co.....	Machine parts .....	1184	22 50
	Jno. McAllister.....	Labor .....	1185	19 50
	Hager & Graves.....	Groceries .....	1186	63
	Prosch Mfg. Co.....	Repairs .....	1187	5 00
	M. Staley .....	Labor .....	1188	8 07
	F. C. Caldwell.....	Cash for book-case .....	1189	7 00
	C. E. Lee.....	Labor .....	1190	1 38
	S. T. Hallsman.....	Painting .....	1191	21 00
	Krauss, Butler & B. Co.	Laboratory fixtures .....	1192	7 20
	F. B. Potts.....	Labor .....	1193	1 50
	Pancoast Vent. Co....	Ventilators .....	1194	4 00
	Stitt, Price & Co.....	Cement .....	1195	14 50
	McClelland & Co.....	Blackboard .....	1196	17 20
	A. D. Morely.....	Carpentry .....	1197	4 50
	Norton Emery Whl. Co	Emery wheels .....	1198	4 14
	Nicholson File Co....	File cards .....	1199	45 89
	Jones & Laughlin.....	Iron .....	1200	5 26
	Morse Tw't D. & M. Co	Wrench .....	1201	2 85
	E. B. Schulte Sons Co.	Iron and steel.....	1202	50 68
	Col. Bolt Works.....	Bolts .....	1203	8 71
	S. C. Derby.....	Cash adv. for books.....	1204	5 85
	Gowing & Co.....	Calorimeters .....	1205	32 00
	Crescent Steel Co....	Steel .....	1206	2 34
	L. S. Starrett & Co....	Cutter .....	1207	2 48
	A. F. Hall.....	Cash adv. for sundries .....	1208	55
	M. P. Streett.....	Masonry .....	1209	5 00
	Hoggson & P. Mfg. Co.	Steel stamps .....	1210	72
	W. H. Miller Co.....	Glass and hdwe .....	1211	33 94
	Simons Hdw. Co.....	" .....	1212	1 33
	Geo. Trowbridge .....	Carpentry .....	1213	25
	E. H. Bailey.....	Labor .....	1214	4 05
	F. J. Hale.....	Clerical work .....	1215	3 00
	H. Judd .....	Carpentry .....	1216	7 88
	Holmes F. Grap. M. Co	Hangers .....	1217	18 29
	W. B. Calkins.....	Labor .....	1218	13 50
	Kny Sheerer Co.....	Scientific instruments .....	1219	80 35
	S. L. Huddleson.....	Running track .....	1220	130 00
	C. P. Linhart.....	Blacksmithing .....	1221	2 00

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898.				
Nov. 5	J. & G. Butler.....	Soap .....	1222	8 00
	A. G. Spalding & Bros.	Gym. equipment.....	1223	869 80
	Bancroft & Bros.	Elect. instruments.....	1224	7 00
	Western Elec. Co.....	" .....	1225	88 70
	Thomas Law Book Co.	Labels .....	1226	6 25
	H. J. Hammond.....	Hosp. supplies .....	1227	2 81
	W. Sparhawk .....	Laundry .....	1228	53
	Sparhawk & Worcester	Care of horse .....	1229	25 00
	D. C. Beggs.....	Shades .....	1230	6 25
	Ohio Furn. Co.....	Boxes .....	1231	45 00
	R. C. Osburn.....	Collecting .....	1232	3 60
	A. H. Smythe.....	Paper .....	1233	1 50
	Brehne & Stengele...	Cork .....	1234	12 00
	W. T. Falconer Mf. Co	Apiarian supplies .....	1235	3 00
	H. L. Osborn.....	Books .....	1236	16 93
	Cherington P. & E. Co.	Self-inker .....	1237	1 25
	Ward's Nat. Sci. Est..	Mounting .....	1238	140 00
	Murray City Coal Co..	Coal .....	1239	661 74
	Engelke & Bigelow...	Freight and drayage .....	1240	73 00
	C. Woodruff .....	Carpentry and climb. flag pole .....	1241	65 00
	Wilbert Morlan .....	Carpentry .....	1242	5 40
	H. C. Nidy.....	Labor .....	1243	5 19
	R. J. Seymour.....	" .....	1244	8 75
	B. B. Wells.....	" .....	1245	4 80
	E. G. Bailey.....	" .....	1246	5 00
	W. Erdmann .....	" .....	1247	15 98
	Mrs. E. R. Hubler...	Clerical work .....	1248	14 17
	Franklin Toil. Sup. Co.	Laundry .....	1249	17 97
	J. H. Randall.....	Carpentry .....	1250	38 75
	J. H. Nold.....	Labor .....	1251	8 80
	Elliott & Maclean....	Molding, etc.....	1252	10 83
	Blackwood, G. & Co..	Hardware .....	1253	37 34
	Col. Supply Co.....	" supplies .....	1254	43 47
	Col. Rubber & B. Co..	Hose and coupling.....	1255	82 28
	Kelton & Converse...	Lumber .....	1256	159 40
	Champlin Ptg. Co.....	Printing .....	1257	109 60
	Tallmadge Hdw. Co..	Hdwe .....	1258	45 35
	Standard Oil Co.....	Oil .....	1259	30 25
	Library Bureau .....	Library supplies .....	1260	20 19
	Niischke Bros .....	Stationery .....	1261	14 35
	G. E. Stechert .....	Books .....	1262	112 43
	J. A. Erner & Co.....	Elect. supplies .....	1263	6 64
	R. W. Bock.....	Sign painting .....	1264	15 00
	B. D. Potts.....	Hose and pipes .....	1265	5 22
	New Col. Bdg. Co....	Iron .....	1266	24 00
	Col. Gas Co.....	Coke .....	1267	19 25
	Cap. City Mch. Wks..	Hdwe .....	1268	4 95
	Schoedinger, F. & Co..	" .....	1269	11 81
	Perry Smythe .....	Picture frames .....	1270	13 95
	J. P. Carlile.....	Cement .....	1271	5 17
	Hann & Adair.....	Printing .....	1272	30 48
	H. Braun Sons & Co..	Surgical instruments .....	1273	56 43
	Bausch L. Opt. Co....	Microscopes .....	1274	345 40
	Ruggles Gale Co.....	Office supplies .....	1275	14 33
	G. M. Johnson.....	Refund of fees.....	1276	5 00

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898.				
Nov. 5	R. W. Funk.....	Work in store-room.....	1277	27 38
	Paul Jones .....	Postage and letter book....	1278	3 70
	Col. Gas Co.....	Gas .....	1279	123 97
8	C. F. Bowen.....	Refund of fees .....	1280	6 75
	Lily Weeks .....	Salary as janitrix .....	1281	5 00
11	Mrs. M. J. Kellenberger	Serv. dept. dom. sci.....	1282	4 00
	C. F. Sigrist.....	Fees refunded .....	1283	4 50
12	F. W. Prentiss.....	Payment bonds and int....	1284	28,375 00
	G. Bruder .....	Salary band master .....	1285	42 00
17	F. W. Prentiss.....	B-E. ac. C Kob & Co.....	1286	807 70
22	Lily Weeks .....	Salary to Nov. 21, 1898....	1287	10 00
	Mrs. M. J. Kellenberger	Serv. dept. dom. sci.....	1288	8 00
26	J. H. Canfield.....	Salary Nov, 1898 .....	1289	500 00
	Alexis Cope .....	" " .....	1290	187 50
	C. E. Barnet.....	" " .....	1291	65 00
	F. W. Prentiss.....	" " .....	1292	33 33
	Jean Blackford .....	" " .....	1293	54 17
	E. D. Cockins.....	" " .....	1294	58 33
	T. F. Hunt.....	Salary Nov., 1898, inst....	1295	250 00
	W. F. Hunter.....	" " .....	1296	250 00
	G. W. Knight.....	" " .....	1297	250 00
	W. A. Kellerman .....	" " .....	1298	225 00
	Wm. McPherson .....	" " .....	1299	225 00
	C. N. Brown.....	" " .....	1300	225 00
	A. C. Barrows.....	" " .....	1301	225 00
	Edw. Orton.....	" " .....	1302	225 00
	E. A. Eggers.....	" " .....	1303	225 00
	J. R. Smith.....	" " .....	1304	225 00
	H. A. Weber.....	" " .....	1305	225 00
	W. R. Lazenby.....	" " .....	1306	225 00
	F. E. Sanborn.....	" " .....	1307	225 00
	S. C. Derby.....	" " .....	1308	225 00
	A. M. Bleile.....	" " .....	1309	225 00
	R. D. Bohannan.....	" " .....	1310	225 00
	W. T. Magruder.....	" " .....	1311	225 00
	J. P. Gordy.....	" " .....	1312	225 00
	W. H. Scott.....	" " .....	1313	225 00
	B. F. Thomas.....	" " .....	1314	225 00
	J. V. Denney.....	" " .....	1315	225 00
	B. L. Bowen.....	" " .....	1316	225 00
	H. Osborn .....	" " .....	1317	225 00
	N. W. Lord.....	" " .....	1318	200 00
	F. A. Ray.....	" " .....	1319	200 00
	G. B. Kauffman.....	" " .....	1320	200 00
	Edw. Orton, Jr.....	" " .....	1321	180 00
	J. N. Bradford.....	" " .....	1322	180 00
	G. W. McCoard.....	" " .....	1323	160 00
	C. P. Linhart.....	" " .....	1324	160 00
	H. C. Lord.....	" " .....	1325	160 00
	E. A. Hitchcock.....	" " .....	1326	150 00
	D. S. White.....	" " .....	1327	150 00
	W. D. Gibbs.....	" " .....	1328	140 00
	P. G. Bowman.....	" " .....	1329	140 00
	F. C. Caldwell.....	" " .....	1330	140 00
	F. C. Clark.....	" " .....	1331	135 00
	W. H. Page.....	" " .....	1332	135 00

## STATEMENT II -- Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898.				
Nov. 26	S. A. Norton.....	Salary Nov., 1898, inst.....	1333	120 00
	R. I. Fulton.....	" ".....	1334	120 00
	W. H. Siebert.....	" ".....	1335	120 00
	O. B. Jones.....	" ".....	1336	120 00
	J. E. Boyd.....	" ".....	1337	120 00
	E. B. Kinhead.....	" ".....	1338	110 00
	J. R. Taylor.....	" ".....	1339	110 00
	C. E. Sherman.....	" ".....	1340	100 00
	T. E. French.....	" ".....	1341	100 00
	C. W. Mesloh.....	" ".....	1342	100 00
	C. L. Arnold.....	" ".....	1343	100 00
	K. D. Swartzel.....	" ".....	1344	100 00
	A. W. Hodgman.....	" ".....	1345	100 00
	W. A. Knight.....	" ".....	1346	95 00
	C. W. Weick.....	" ".....	1347	95 00
	C. C. Sleffel.....	" ".....	1348	95 00
	J. H. Schaffner.....	" ".....	1349	90 00
	C. W. Foulk.....	" ".....	1350	90 00
	J. A. Bownocker.....	" ".....	1351	90 00
	C. A. Dye.....	" ".....	1352	90 00
	W. L. Graves.....	" ".....	1353	90 00
	J. S. Hine.....	" ".....	1354	85 00
	F. L. Landacre.....	" ".....	1355	85 00
	A. E. Vinson.....	" ".....	1356	80 00
	E. M. Van Harlingen..	" ".....	1357	80 00
	M. P. Brush.....	" ".....	1358	80 00
	C. Wissler.....	" ".....	1359	80 00
	S. M. Elliott.....	" ".....	1360	75 00
	E. O. Randall.....	" ".....	1361	70 00
	D. F. Pugh.....	" ".....	1362	70 00
	E. E. Harrold.....	" ".....	1363	70 00
	N. H. Brown.....	" ".....	1364	70 00
	E. E. Somermier.....	" ".....	1365	65 00
	F. H. Ruhlen.....	" ".....	1366	60 00
	T. K. Lewis.....	" ".....	1367	60 00
	A. F. Hall.....	" ".....	1368	60 00
	W. F. Lavery.....	" ".....	1369	60 00
	C. B. Frederick.....	" ".....	1370	60 00
	H. Townshend.....	" ".....	1371	55 00
	J. F. Cunningham.....	" ".....	1372	54 00
	G. S. Kellicott.....	" ".....	1373	50 00
	M. D. Jeffrey.....	" ".....	1374	50 00
	A. V. Bleininger.....	" ".....	1375	40 00
	Lucy Allen.....	" ".....	1376	40 00
	M. Dresbach.....	" ".....	1377	30 00
	F. A. Fish.....	" ".....	1378	30 00
	A. H. McIntire.....	" ".....	1379	30 00
	E. L. Ball.....	" ".....	1380	30 00
	S. E. Rasor.....	" ".....	1381	30 00
	H. Judd.....	" ".....	1382	30 00
	F. J. Hale.....	" ".....	1383	30 00
	J. B. Parker.....	" ".....	1384	30 00
	B. F. Maag.....	" ".....	1385	30 00
	J. H. Vosskuehler.....	" ".....	1386	30 00
	E. L. Fullmer.....	" ".....	1387	25 00
	R. Fischer.....	" ".....	1388	25 00



## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898.				
Nov. 26	F. O. Clements.....	Salary Nov., 1898, inst .....	1389	25 00
	O. V. Brumley.....	" " .....	1390	20 00
	R. C. Purdy.....	" " .....	1391	20 00
	G. W. Rightmire.....	" " .....	1392	20 00
	E. H. Bailey.....	" " .....	1393	15 00
	F. F. D. Alberty.....	" " .....	1394	15 00
	J. H. Collins.....	" " .....	1395	10 00
	D. A. Kohr.....	" " .....	1396	10 00
	R. E. McIntosh.....	" " .....	1397	10 00
	H. Gamper.....	" " .....	1398	7 50
	W. C. McCracken.....	" " .....	1399	150 00
	Geo. Rose .....	" " .....	1400	65 00
	C. Low .....	" " .....	1401	54 17
	W. Standley .....	" " .....	1402	50 00
	B. Lebay .....	" " .....	1403	50 00
	Thos. Boudé.....	" " .....	1404	45 00
	W. H. Case.....	" " .....	1405	45 00
	H. Martz .....	" " .....	1406	45 00
	M. Peck .....	" " .....	1407	40 00
	F. K. Luke.....	" " .....	1408	40 00
	A. Chantler .....	" " .....	1409	40 00
	J. F. Longman.....	" " .....	1410	40 00
	J. H. Brown.....	" " .....	1411	40 00
	D. D. Geren.....	" " .....	1412	40 00
	W. Whitestone .....	" " .....	1413	40 00
	H. Chantler .....	" " .....	1414	40 00
	Geo. Denney .....	" " .....	1415	40 00
	M. N. Cook.....	" " .....	1416	40 00
	T. L. Edgington.....	" " .....	1417	40 00
	T. E. Osborn.....	" " .....	1418	40 00
	Jas. Kelley .....	" " .....	1419	35 00
	D. C. Huddleson.....	" " .....	1420	50 00
	W. C. Mills.....	" " .....	1421	25 00
	Mrs. E. R. Hubler.....	" " .....	1422	20 00
	Wash. Townsend .....	" " .....	1423	25 00
	W. C. Weir.....	" " .....	1424	20 00
	J. C. Perry.....	" " .....	1425	12 50
	G. W. Elwell.....	" " .....	1426	40 00
	A. G. McCall.....	" " .....	1427	20 00
25	M. W. Sherwood.....	Refund of fees, soldier....	1428	9 00
26	Joe Garretson .....	Plumbers' helper .....	1429	37 50
28	W. S. Haly.....	Refund of fees.....	1430	5 00
	C. H. Evans.....	" " soldier .....	1431	12 00
Dec. 1	F. W. Prentiss.....	Paymt of int. bonds.....	1432	5,700 00
	A. A. H. Grimm.....	Refund of fees, soldier....	1433	5 00
3	Kate Shanaham .....	Inst. in laundrying.....	1434	26 00
6	Lily Weeks .....	Salary as janitrix .....	1435	8 00
	L. B. Wing.....	Expenses meet'g trustees...	1436	9 55
7	M. J. Kellenberger.....	Servl dept. dom. sci.....	1437	8 00
10	Col. Gas Co.....	Gas .....	1438	139 12
	F. R. West.....	Guide and mess. serv.....	1439	2 00
	M. Snow .....	" " .....	1440	5 12
	J. F. Travis.....	" " .....	1441	1 75
	F. C. McKinney.....	" " .....	1442	4 75
	V. Martz .....	" " .....	1443	3 75
	R. J. Seymour.....	" " .....	1444	5 87

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898.				
Nov. 26	F. J. Pavlicek.....	Guide and mess. serv.....	1445	4 12
	Tracy Wells Co.....	Mops .....	1446	15 60
	Cherington P. & E. Co.	Rubber stamp .....	1447	50
	Cent. O. Oil Co.....	Oil .....	1448	12 60
	Buckeye H. & L. Co...	Leather .....	1449	35
	Webb. Sta. & Ptg. Co..	Stationery .....	1450	18 00
	Hanna Paint Mfg. Co.	Paint .....	1451	1 50
	Lawrence Press Co...	Vouchers .....	1452	1 50
	Mrs. E. R. Hubler....	Clerical work.....	1453	7 82
	Ideal Pub. Co.....	Half-tone cut .....	1454	1 50
	West. U. Tel. Co.....	Telegraph service .....	1455	63
	A. McLaughlin.....	Work in record office .....	1456	1 28
	Mrs. F. D. Meyer.....	Laundry .....	1457	3 00
	E. R. Calloway.....	Cleaning vaults .....	1458	67 53
	Burgess Sold. Fur. Co.	Repairs .....	1459	1 95
	Bourne & K. Mfg. Co.	Gaskets .....	1460	2 78
	Sherwood Mfg. Co....	Cutters .....	1461	2 00
	Col. Brass Co.....	Labor and material .....	1462	2 40
	Shawmut F. Wire Co.	Fuses .....	1463	61
	J. J. Gheen.....	Plastering .....	1464	15 85
	Waters Governor Co..	Reducing valve .....	1465	140 00
	Jewell Belting Co....	Sundries .....	1466	13 03
	Kilbourne Jones Co..	Bolts .....	1467	45
	Pneumatic Eng. Co...	Pump .....	1468	250 00
	West Steam Eng. Co..	Packing .....	1469	35 00
	Eaton Mch. Wks.....	Labor and material .....	1470	10 50
	West'ghouse E. Mf. Co.	Apparatus .....	1471	186 17
	M. P. Streett.....	Building chimney .....	1472	11 65
	M. L. Blose.....	Labor .....	1473	5 88
	R. E. McIntosh.....	" .....	1474	6 91
	F. A. Fish.....	" .....	1475	3 00
	H. C. Nidy.....	" .....	1476	5 55
	C. R. Stauffer.....	" .....	1474	1 60
	J. T. Frankenberg....	" .....	1478	3 28
	M. C. Hunter.....	" .....	1479	10 40
	M. Stanley .....	" .....	1480	6 75
	C. Pixler .....	" clean boilers.....	1481	41 25
	Jas. Stainbrook .....	" .....	1482	40 50
	J. LeBay .....	Digging trench .....	1483	6 75
	Jeffrey Hdw. Co.....	Sprocket and chain .....	1484	29 35
	General Elec. Co.....	Elect. supplies .....	1485	6 25
	The Lantern .....	Advertising .....	1486	60 00
	Y. M. C. A. ....	" .....	1487	5 50
	Boston Book Co.....	Books .....	1488	132 80
	Seraphim B. Book Co.	Binding .....	1489	55 65
	Ginn & Co.....	Books .....	1490	2 25
	Torrey Bot. Club.....	Bulletin .....	1491	20
	Am. Jo. of Physiology	Books .....	1492	5 00
	I. N. Demmon.....	" .....	1493	30 00
	Am. Trot. Reg. Assn..	" .....	1494	3 00
	Good Housekeeping ..	Magazine .....	1495	27
	E. A. Werner.....	Books .....	1496	5 00
	Univ. of Chic. Press..	Magazine .....	1497	40
	Writer Pub. Co.....	" .....	1498	2 00
	Cambridge Ent. Club..	" .....	1499	2 00
	Helman Taylor Co....	Books .....	1500	27 10

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898.				
Dec. 10	G. E. Steckert.....	Books.....	1501	86 54
	Burrows Bros. Co.....	".....	1502	223 12
	O. S. Lear.....	Typewriter.....	1503	75 00
	Yawman & E. Mfg. Co.	Library supplies.....	1504	5 18
	Boston Bk. Binding Co.	Binders.....	1505	2 00
	Agr. Stud. Pub. Co....	Adv.....	1506	10 00
	L. T. Williams.....	Work in library.....	1507	10 00
	B. Hermann.....	".....	1508	2 10
	H. B. Farnham.....	".....	1509	2 00
	Fritch Mfg. Co.....	Iron work.....	1510	17 50
	H. Haerlein.....	Landscape gardening.....	1511	66 10
	Col. Macadam Co.....	Stone screenings.....	1512	208 73
	L. Meiche.....	Labor.....	1513	1 75
	W. Atherton.....	".....	1514	1 87
	J. Mergler.....	".....	1515	1 00
	J. B. Crabb.....	".....	1516	2 00
	W. K. Breckenridge...	".....	1517	5 13
	H. L. Belden.....	".....	1518	5 37
	W. H. Gilmore.....	".....	1519	1 44
	O. L. Vandament.....	".....	1520	2 25
	J. D. Uncapher.....	".....	1521	1 87
	A. F. Wilcox.....	".....	1522	13 43
	J. A. Brookens.....	".....	1523	4 75
	T. McOwen.....	".....	1524	1 75
	C. Mooney.....	".....	1525	1 80
	O. E. Jennings.....	".....	1526	2 31
	A. H. Snyder.....	".....	1527	1 94
	J. Keller.....	Gravel.....	1528	339 52
	Eastman Kodak Co....	Photo plates.....	1529	11 20
	Kauffman Lattimer Co.	Apparatus and chemicals...	1530	239 85
	Baker & A. Chem. Co..	Chemicals.....	1531	12 60
	Creamery Pkg. Co....	Pulp caps.....	1532	5 00
	W. Burdell, Jr.....	Harness.....	1533	1 75
	B. W. Herman.....	Freight.....	1534	4 40
	Stitt, Price & Co.....	Lime.....	1535	1 68
	Cyclone W. Wire F. Co	Fence.....	1536	67 81
	H. P. Miller.....	Sheep and lectures.....	1537	20 00
	Seeds & Mills.....	Oil meal.....	1538	2 80
	Mrs. C. H. Woodruff..	Lodging hands.....	1539	5 25
	Press Post Ptg. Co....	Advertising.....	1540	1 79
	Col. Dispatch.....	".....	1541	2 70
	O. S. Journal Co.....	".....	1542	2 52
	J. Immel & Son.....	Repairing.....	1543	9 20
	J. Weisheimer.....	Grinding.....	1544	8 85
	C. M. Cott.....	Milk tickets.....	1545	4 50
	H. A. Blakester.....	".....	1546	15 00
	E. C. Livenspire.....	Blacksmithing.....	1547	9 95
	G. W. Clarke & Co....	Lumber.....	1548	59 16
	M. J. Bergin Lbr. Co..	".....	1549	17 64
	Coe & Spencer.....	".....	1550	3 20
	F. S. Johnston.....	Clerical work.....	1551	13 80
	Kny Sheerer Co.....	Model of eye.....	1552	19 00
	Richards & Co.....	Chemicals.....	1553	3 55
	E. C. Duke.....	Clearing field.....	1554	1 77
	M. G. Modie.....	Wire.....	1555	3 07
	Bausch L. Opt. Co....	Balsam.....	1556	86

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898.				
Dec. 10	L. C. Riddle.....	Mounting plants .....	1557	9 00
	M. Peck .....	Specimens .....	1558	8 00
	Bradstreets Co .....	Journal .....	1559	182 00
	Jas. Penn .....	Freight and drayage .....	1560	1 37
	Payne McD. Hdw. Co.	Hardware .....	1561	1 25
	J. M. Blair .....	Packing and draying .....	1562	2 50
	Moonstone Cpy. Sl. Co.	Ink and filling .....	1563	1 95
	Mayer Pottery Co.....	Pottery supplies .....	1564	3 00
	Col. Brass Co.....	Boiler and motor .....	1565	30 25
	Alpheia Dairy Co.....	Milk tickets .....	1566	2 00
	Z. L. White & Co.....	Dry goods .....	1567	14 00
	F. C. Clark.....	Office supplies .....	1568	2 65
	H. Geren .....	" .....	1569	1 15
	Macmillan Co .....	Book .....	1570	75
	J. Hertner .....	Labor .....	1571	7 35
	McClelland & Co.....	Books .....	1572	27 60
	Hammond & Sparh'k.	Care of horse .....	1573	10 25
	H. Troemner .....	Scales .....	1574	88 98
	E. A. Kinsey Co.....	Steel .....	1575	3 26
	Morse T. Drill & M. Co	Taps .....	1576	3 01
	Hager & Graves.....	Molasses .....	1577	60
	P. Hayden S. Hdw. Co	Copper .....	1578	5 22
	Hayden'le M. & M. Co	Coke .....	1579	11 36
	B. B. Wells.....	Labor .....	1580	12 00
	K. Nurian .....	" .....	1581	7 05
	J. H. Nold.....	" .....	1582	7 95
	G. M. Berndroth.....	" .....	1583	3 45
	H. Gamper .....	" .....	1584	4 28
	E. Thompson Co.....	Encyclopædia of law .....	1585	6 00
	Ohio Furn. Co.....	Book-case .....	1586	16 00
	J. M. Hayden & Co.....	Lacing .....	1587	3 30
	L. S. Starrett Co.....	Tools .....	1588	9 25
	Armstrong Brs. T. Co.	" .....	1589	7 43
	Direct Separator Co...	Separator .....	1590	12 00
	J. DeRycke .....	" .....	1591	16 00
	Western Mfg Co.....	Tools .....	1592	2 63
	Buffalo Scale Co.....	Scale parts .....	1593	28 17
	Schaffer & Budenberg.	Counter .....	1594	16 00
	Wheeler C. & Eng. Co.	Condenser .....	1595	400 00
	F. J. Hale.....	Labor .....	1596	2 22
	G. C. Henning.....	Repairs .....	1597	75
	McGraw & Andrews..	Braces .....	1598	25
	H. Judd .....	Carpentry .....	1599	9 12
	E. H. Bailey .....	Pipe fitting .....	1600	10 65
	Taylor M. & G. Co....	Interior wk. and furn.....	1601	221 00
	Miller Furn. Co.....	Chairs .....	1602	56 50
	Baker's Art Gallery...	Frame and pictures .....	1603	22 40
	H. Goldsmith.....	Musical inst. and repairs...	1604	49 80
	R. W. Funk.....	Labor .....	1605	6 52
	L. S. Brown & Son....	Repairs .....	1606	60
	L. S. Huddleson.....	Running track .....	1607	18 30
	J. C. Sherwood.....	Basket ball .....	1608	4 50
	D. C. Beggs Co.....	Shades .....	1609	4 50
	Queen & Co.....	Scales .....	1610	12 00
	West. Elec. Co.....	Wattmeters .....	1611	30 00
	Col. Buggy Co.....	Painting .....	1612	6 50



## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898.				
Dec. 10	C. Scribner's Sons....	Book .....	1613	1 25
	I. N. Demmon.....	" .....	1614	25 00
	E. Kaiser.....	Salt .....	1615	1 10
	M. A. Frazar.....	Netting .....	1616	2 10
	R. C. Osborn.....	Work in library .....	1617	8 85
	E. G. Bailey.....	Labor .....	1618	4 96
	J. A. Erner & Co.....	Elect. supplies .....	1619	24 65
	Blackwood, G. & Co....	Hardware .....	1620	35 35
	Elliott & Maclean....	Lumber .....	1621	27 40
	J. H. Randall.....	Carpentry .....	1622	56 50
	W. Morelan .....	" .....	1623	12 60
	Tallmadge Hdw. Co....	Hardware .....	1624	22 88
	Col. Rubber & B. Co..	Pipe .....	1625	11 62
	Palmer & Beck.....	Roofing .....	1626	67 07
	Krauss, B. & B. Co....	Shades .....	1627	34 40
	W. H. Anderson & Co.	Books .....	1638	272 25
	Hann & Adair.....	Typewriter, paper, etc....	1629	114 75
	Kelton & Converse....	Lumber .....	1630	17 42
	J. M. & W. Westwater.	Sundries .....	1631	5 75
	Fkl. Toilet Sup. Co....	Laundry .....	1632	34 05
	Green, Joyce & Co....	Dry goods .....	1633	12 26
	Nitschke Bros.....	Paper and ink .....	1634	6 00
	Champlin Ptg. Co....	Printing, etc.....	1635	136 00
	H. Braun Sons Co....	Chemicals .....	1636	5 68
	B. D. Potts.....	Hardware .....	1637	37 39
	Library Bureau .....	Book-case and supplies .....	1638	44 80
	Schoedinger, F. & Co..	Hardware .....	1639	7 58
	Kimball & Matthews..	Photo supplies .....	1640	8 97
	T. H. McAllister.....	Stereopticon supplies .....	1641	11 03
	Standard Oil Co....	Oil .....	1642	42 46
	Col. Supply Co.....	Hardware supplies .....	1643	27 35
	Jas. Ohlen Sons.....	Steel .....	1644	5 45
	Cap. City Mch. Wks..	Machine parts .....	1645	69 26
	W. Erdman .....	Labor .....	1646	10 90
	Murray City Coal Co..	Coal .....	1647	987 68
	C. H. Woodruff.....	Labor and material .....	1648	61 25
	Engelke & Bigelow....	Freight and cartage.....	1649	57 08
12	R. M. Rownd, P. M....	Stamps .....	1650	20 00
	Lily Weeks .....	Salary Dec. 5-12, 1898....	1651	5 00
14	W. I. Chamberlain....	Exp. del. L. G. Col. Ass'n..	1652	22 78
	W. I. Chamberlain....	Exp. meet'g Dec. 14, 1898..	1653	16 15
15	T. J. Godfrey.....	" .....	1654	27 95
16	J. McL. Smith.....	" .....	1655	7 95
	J. T. Mack.....	" .....	1656	13 85
17	Mrs. M. J. Kellenberger	Serv. dept. dom. sci.....	1657	12 00
16	R. M. Rownd, P. M....	Postage .....	1658	21 80
	Lily Weeks .....	Salary Dec. 12-19 .....	1659	5 00
17	D. S. White.....	" 1898, inst.....	1660	150 00
21	J. H. Canfield.....	" .....	1661	500 00
	Alexis Cope .....	" .....	1662	187 50
	C. E. Barnet.....	" .....	1663	65 00
	F. W. Prentiss.....	" .....	1664	33 33
	Jean Blackford .....	" .....	1665	54 17
	E. D. Cockins.....	" .....	1666	58 33
	T. F. Hunt.....	" .....	1667	250 00
	W. F. Hunter.....	" .....	1668	250 00

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898. Dec. 21	G. W. Knight.....	Salary Dec., 1898, inst.....	1669	250 00
	W. A. Kellerman.....	" " .....	1670	225 00
	W. McPherson .....	" " .....	1671	225 00
	C. N. Brown.....	" " .....	1672	225 00
	A. C. Barrows.....	" " .....	1673	225 00
	Edw. Orton .....	" " .....	1674	225 00
	E. A. Eggers.....	" " .....	1675	225 00
	J. R. Smith.....	" " .....	1676	225 00
	H. A. Weber.....	" " .....	1677	225 00
	W. R. Lazenby.....	" " .....	1678	225 00
	F. E. Sanborn.....	" " .....	1679	225 00
	S. C. Derby.....	" " .....	1680	225 00
	A. M. Bleile.....	" " .....	1681	225 00
	R. D. Bohannon.....	" " .....	1682	225 00
	W. T. Magruder.....	" " .....	1683	225 00
	J. P. Gordy.....	" " .....	1684	225 00
	W. H. Scott.....	" " .....	1685	225 00
	B. F. Thomas.....	" " .....	1686	225 00
	J. V. Denney.....	" " .....	1687	225 00
	B. L. Bowen.....	" " .....	1688	225 00
	H. Osborn .....	" " .....	1689	225 00
	N. W. Lord .....	" " .....	1690	200 00
	F. A. Ray.....	" " .....	1690	200 00
	G. B. Kauffman.....	" " .....	1692	200 00
	Edw. Orton, Jr.....	" " .....	1693	180 00
	J. N. Bradford.....	" " .....	1694	180 00
	G. W. McCoard.....	" " .....	1695	160 00
	C. P. Linhart.....	" " .....	1696	160 00
	H. C. Lord.....	" " .....	1697	160 00
	E. A. Hitchcock.....	" " .....	1698	150 00
	W. D. Gibbs.....	" " .....	1699	140 00
	P. G. Bowman.....	" " .....	1700	140 00
	F. C. Caldwell.....	" " .....	1701	140 00
	F. C. Clark.....	" " .....	1702	135 00
	W. H. Page.....	" " .....	1703	135 00
	S. A. Norton.....	" " .....	1704	120 00
	R. I. Fulton.....	" " .....	1705	120 00
	W. H. Siebert.....	" " .....	1706	120 00
	O. B. Jones.....	" " .....	1707	120 00
	J. E. Boyd.....	" " .....	1708	120 00
	E. B. Kinkad.....	" " .....	1709	110 00
	J. R. Taylor.....	" " .....	1710	110 00
	C. E. Sherman.....	" " .....	1711	100 00
	T. E. French.....	" " .....	1712	100 00
	C. W. Mesloh.....	" " .....	1713	100 00
	C. L. Arnold.....	" " .....	1714	100 00
	K. D. Swartzel.....	" " .....	1715	100 00
	A. W. Hodgman.....	" " .....	1716	100 00
	W. A. Knight.....	" " .....	1717	95 00
	C. W. Weick.....	" " .....	1718	95 00
	C. C. Sleffel.....	" " .....	1719	95 00
	J. H. Schaffner.....	" " .....	1720	90 00
	C. W. Foulk.....	" " .....	1721	90 00
	J. A. Bownocker.....	" " .....	1722	90 00
	C. A. Dye.....	" " .....	1723	90 00
	W. L. Graves.....	" " .....	1724	90 00

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898. Dec. 21	J. S. Hine.....	Salary Dec., 1898, inst.....	1725	85 00
	F. L. Landacre.....	" ".....	1726	85 00
	A. E. Vinson.....	" ".....	1727	80 00
	E. M. Van Harlingen..	" ".....	1728	80 00
	M. P. Brush.....	" ".....	1729	80 00
	C. Wissler.....	" ".....	1730	80 00
	S. M. Elliott.....	" ".....	1731	75 00
	E. O. Randall.....	" ".....	1732	70 00
	D. F. Pugh.....	" ".....	1733	70 00
	E. E. Harrold.....	" ".....	1734	70 00
	N. H. Brown.....	" ".....	1735	70 00
	E. E. Sommermeier....	" ".....	1736	65 00
	F. Ruhlen.....	" ".....	1737	60 00
	T. K. Lewis.....	" ".....	1738	60 00
	A. F. Hall.....	" ".....	1739	60 00
	W. F. Lavery.....	" ".....	1740	60 00
	C. B. Fredericks.....	" ".....	1741	60 00
	Harriet Townsend.....	" ".....	1742	55 00
	J. F. Cunningham.....	" ".....	1743	54 00
	G. S. Kellicott.....	" ".....	1744	50 00
	M. D. Jeffrey.....	" ".....	1745	50 00
	A. V. Bleininger.....	" ".....	1746	40 00
	Lucy Allen.....	" ".....	1747	40 00
	M. Dresbach.....	" ".....	1748	30 00
	F. A. Fish.....	" ".....	1749	30 00
	A. H. McIntyre.....	" ".....	1750	30 00
	E. L. Ball.....	" ".....	1751	30 00
	S. E. Rasor.....	" ".....	1752	30 00
	Horace Judd.....	" ".....	1753	30 00
	F. J. Hale.....	" ".....	1754	30 00
	J. B. Parker.....	" ".....	1755	30 00
	B. F. Maag.....	" ".....	1756	30 00
	J. H. Vosskuehler.....	" ".....	1757	30 00
	E. L. Fullmer.....	" ".....	1758	25 00
	Robt. Fischer.....	" ".....	1759	25 00
	F. O. Clements.....	" ".....	1760	25 00
	O. V. Brumley.....	" ".....	1761	20 00
	R. C. Purdy.....	" ".....	1762	20 00
	G. W. Rightmire.....	" ".....	1763	20 00
	E. H. Bailey.....	" ".....	1764	15 00
	F. F. D. Alberty.....	" ".....	1765	15 00
	J. H. Collins.....	" ".....	1766	10 00
	D. A. Kohr.....	" ".....	1767	10 00
	R. E. McIntosh.....	" ".....	1768	10 00
	C. Guittard.....	" ".....	1769	50 00
	H. Gamper.....	" ".....	1770	7 50
	W. C. McCracken.....	" ".....	1771	150 00
	G. Rose.....	" ".....	1772	65 00
	Chas. Low.....	" ".....	1773	54 17
	Wm. Standley.....	" ".....	1774	50 00
	B. LeBay.....	" ".....	1775	50 00
	Thos. Boude.....	" ".....	1776	45 00
	W. H. Case.....	" ".....	1777	45 00
	H. Martz.....	" ".....	1778	45 00
	M. Peck.....	" ".....	1779	40 00
	T. K. Luke.....	" ".....	1780	40 00

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1898. Dec. 21	A. Chantler.....	Salary Dec., 1898.....	1781	40 00
	J. F. Longman.....	Salary Dec. 24, 1898.....	1782	30 97
	J. H. Brown.....	Salary Dec., 1898.....	1783	40 00
	D. D. Geren.....	" ".....	1784	40 00
	W. Whitestone.....	" ".....	1785	40 00
	H. Chantler.....	" ".....	1786	40 00
	G. C. Denny.....	" ".....	1787	40 00
	M. N. Cook.....	" ".....	1788	40 00
	T. S. Edgington.....	" ".....	1789	40 00
	T. E. Osborn.....	" ".....	1790	40 00
	J. Kelley.....	" ".....	1791	35 00
	D. C. Huddleson.....	" ".....	1792	50 00
	W. C. Mills.....	" ".....	1793	25 00
	Mrs. E. R. Hubler....	" ".....	1794	20 00
	W. Townsel.....	" ".....	1795	25 00
	W. C. Weir.....	" ".....	1796	20 00
	J. C. Perry.....	" ".....	1797	12 50
	G. W. Elwell.....	" ".....	1798	40 00
	A. G. McCall.....	" ".....	1799	20 00
	C. B. Enlow.....	Quartermaster's fees.....	1800	5 00
	Joe. Garrettson.....	27d helper to plumber, \$1.50	1801	40 50
	D. M. Massie.....	Expenses as trustee.....	1802	39 32
1899. Jan. 3	R. M. Rownd, P. M....	Stamped envelopes.....	1803	85 60
	L. B. Wing.....	Expenses meetings.....	1804	9 75
4	R. C. Purdy.....	Fees for cer. scholarship...	1805	6 50
5	L. H. Potter.....	Fees ret'd on ac. enlistment.	1806	6 50
6	Col. Gas Co.....	Gas.....	1807	135 90
7	F. F. Pavlicek.....	Guide and mess. serv.....	1808	2 50
	R. J. Seymour.....	" ".....	1809	4 87
	F. C. McKinney.....	" ".....	1810	2 62
	F. R. West.....	" ".....	1811	2 65
	M. Snow.....	" ".....	1812	2 62
	Ind. Alkali Wks.....	Savogran.....	1813	18 53
	Mrs. E. R. Hubler....	Clerical work.....	1814	12 80
	Am. Dist. Tel. Co....	Watch box rent.....	1815	27 00
	Cherington P. & E. Co.	Rubber stamp.....	1816	25
	Mitchell Adv. Co.....	Time card.....	1817	1 00
	Krauss, Butler & B. Co.	Rug and shades.....	1818	51 85
	Pfeifer & Boeshans...	O. S. Journal.....	1819	73
	Cent. Ohio Paper Co..	Paper.....	1820	19 00
	D. H. Derflinger.....	Gasoline.....	1821	4 34
	J. N. McDonald.....	Plastering.....	1821	19 00
	Sherwood Mfg. Co.....	Cutters.....	1823	3 00
	Jas. Stainbrook.....	Cleaning boilers.....	1824	10 25
	W. Morelan.....	Carpentry.....	1825	1 60
	Babcock & Wilcox Co.	Nuts, bolts, etc.....	1826	68 48
	Col. Rubber & B. Co..	Hdwe supplies.....	1827	26 60
	J. S. Abbott & Co.....	Hdwe.....	1828	2 65
	Elliott & Maclean.....	Lumber.....	1829	18 75
	Murphy Iron Wks....	Castings.....	1830	8 00
	B. D. Potts.....	Hdwe.....	1831	4 35
	C. Pixler.....	Cleaning boilers.....	1832	43 50
	Jeffrey Mfg. Co.....	Castings.....	1833	30 76
	Stitt, Price & Co.....	Cement.....	1834	6 50
	O. T. Corson.....	Advertising.....	1835	15 00



## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899. Jan. 7	W. D. Hoard Co.....	Advertising.....	1836	13 44
	W. S. Wiggins.....	Rubber stamps .....	1837	45
	Macmillan & Co.....	Bulletins .....	1838	1 00
	T. C. Trueblood.....	Copy of report .....	1839	1 00
	Lemcke & Buechner..	Books .....	1840	11 60
	Geol. Soc. of Am.....	" .....	1841	5 00
	Seraphim B. Book Co.	Binding .....	1842	41 65
	Burrows Bros. Book Co	Books .....	1843	94 34
	University Café .....	Meals for trustees .....	1844	1 75
	H. L. Belden.....	Labor .....	1845	1 13
	A. F. Wilcox.....	" .....	1846	15 30
	E. Greiner .....	Apparatus .....	1847	2 50
	Denver F. Clay Co....	Crucibles, etc.....	1848	35 05
	Kimball & Mathews...	Photo supplies .....	1849	3 47
	Kauffman Lattimer Co.	Chemicals and apparatus..	1850	94 79
	Seeds & Mills.....	Feed .....	1851	142 50
	S. T. Hallsman.....	Painting .....	1852	2 80
	Col. Buggy Co.....	Repairs .....	1853	2 00
	Barber Mfg. Co.....	Enamel .....	1854	2 10
	Burrell & Co.....	Dairy supplies .....	1855	14 92
	Diamond C. Salt Co...	Salt .....	1856	2 25
	Creamery Pkg. Co....	Dairy supplies .....	1857	21 90
	F. B. Fargo & Co.....	" .....	1858	13 00
	L. Hoster Brew. Co...	Sprouts .....	1859	6 64
	J. Immel & Son.....	Repairs .....	1860	4 85
	H. H. Klott.....	" .....	1861	8 50
	Bausch & L. Opt. Co..	Apparatus .....	1862	18 98
	Richards & Co.....	Ferrometer .....	1863	36 00
	W. J. Davidson.....	Mdse .....	1864	1 00
	Eimer & Amend.....	Muenke apparatus .....	1865	18 75
	Golding & Sons Co...	Pebbles .....	1866	6 10
	Fish Press. Brick Co..	Lime and cement .....	1867	7 40
	McClelland & Co.....	Blank book .....	1868	60
	J. McAllister .....	Labor .....	1869	22 50
	W. Carman .....	" .....	1870	7 50
	L. E. Barringer.....	" .....	1871	4 72
	C. P. Linville.....	" .....	1872	2 13
	F. Jeffrey .....	" .....	1873	8 10
	F. O. Clement.....	Clerical work .....	1874	3 75
	Keuffel & Esser.....	Apparatus .....	1875	6 50
	J. Bien & Co.....	Maps .....	1876	7 75
	A. C. Armstrong & Son	Book .....	1877	1 35
	Jas. Penn .....	Drayage .....	1878	70
	Col. Ice Co.....	Ice .....	1879	1 10
	Hagar & Graves.....	Groceries .....	1880	20 09
	W. I. Saunders.....	Papering and painting .....	1881	48 50
	Elec. Appliance Co....	Elect supplies .....	1882	6 63
	J. A. Erner & Co.....	" .....	1883	14 08
	Sipe & Sigler.....	" .....	1884	8 07
	Weston Elec. Inst. Co.	" .....	1885	2 00
	C. T. Phillips.....	Paper .....	1886	16 78
	W. H. Anderson & Co.	Book .....	1887	3 50
	Lunkenheimer Co....	Regrinding valves .....	1888	8 68
	J. Ohlen & Sons.....	Steel .....	1889	75
	Crosby St. G. & V. Co.	3 way cocks .....	1890	10 05
	Cherington P. & E. Co.	Rubber stamp .....	1891	75

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899. Jan. 7	Holmes F. & G Mf. Co.	Bushings .....	1892	2 09
	E. G. Bailey.....	Labor .....	1893	38
	E. H. Bailey.....	" .....	1894	2 55
	H. Judd .....	Carpentry .....	1895	2 25
	M. P. Streett.....	Smoke stack .....	1896	178 80
	T. H. McAllister.....	Photo supplies .....	1897	27 53
	Chic. L. Sup. & S. Co.	Balance .....	1898	1 50
	A. Spittal.....	Falling shutter .....	1899	14 70
	J. M. & W. Westwater.	Elect supplies .....	1900	2 00
	West. Elec. Co.....	Physical apparatus .....	1901	14 40
	W. Burdell, Jr.....	Blankets .....	1902	10 00
	Hammond & Sparh'k.	Vet. hosp. supplies .....	1903	11 06
	R. C. Osborn.....	Work in museum .....	1904	7 20
	Kny Sheerer Co.....	Insect pins .....	1905	14 40
	Murray City Coal Co..	Coal .....	1906	1,110 19
	Engelke & Bigelow....	Freight and drayage .....	1907	35 94
	C. H. Woodruff.....	Labor and cash adv.....	1908	60 50
	F. S. Johnston.....	Clerical work .....	1909	17 55
	Tallmadge Hdw. Co...	Hdwe .....	1910	22 43
	Blackwood G. & Co...	" .....	1911	49 01
	H. Braun Sons & Co..	Drugs and surg. instrum'ts.	1912	24 67
	G. E. Stechert.....	Books .....	1913	271 80
	J. H. Randall.....	Carpentry .....	1914	21 50
	Kelton & Converse....	Lumber .....	1915	21 49
	Champlin Ptg. Co.....	Printing .....	1916	49 10
	P. Hayden S. Hdw. Co.	Hdwe .....	1917	71 15
	Cap. City Mch. Wks..	" .....	1918	61 10
	Nitschke Bros .....	Stationery .....	1919	11 75
	H. Cole .....	Tracing cloth .....	1920	11 75
	Franklin Toil. Sup. Co.	Laundry .....	1921	4 20
	Col. Supply Co.....	Hdwe .....	1922	39 87
	Spahr & Glenn.....	Stationery .....	1923	11 25
	Standard Oil Co.....	Oil .....	1924	10 48
	Hann & Adair.....	Printing and paper .....	1925	29 80
	Lily Weeks .....	Salary Jan. 3-6 inc.....	1926	4 00
	G. A. Goodspeed.....	Salary Dec. 25 to Dec. 31..	1927	9 03
17	Lily Weeks .....	" Jan. 9-16 .....	1928	5 00
	M. J. Kellenberger....	3 weeks' work dept. dom. econ .....	1929	15 00
19	Col. Rubber & B. Co..	Tubing and valve .....	1930	6 20
28	J. H. Canfield.....	Salary Jan., 1899, inst.....	1931	500 00
	Alexis Cope .....	" .....	1932	187 50
	C. E. Barnet.....	" .....	1933	65 00
	Jean Blackford .....	" .....	1934	54 17
	E. D. Cockins.....	" .....	1935	58 33
	F. W. Prentiss.....	" .....	1936	33 33
	W. F. Hunter.....	" .....	1937	250 00
	T. F. Hunt.....	" .....	1938	250 00
	G. W. Knight.....	" .....	1939	250 00
	W. A. Kellerman.....	" .....	1940	225 00
	W. McPherson .....	" .....	1941	225 00
	C. N. Brown.....	" .....	1942	225 00
	A. C. Barrows.....	" .....	1943	225 00
	Edw. Orton.....	" .....	1944	225 00
	E. A. Eggers.....	" .....	1945	225 00
	J. R. Smith.....	" .....	1946	225 00

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899. Jan. 28	H. A. Weber.....	Salary Jan., 1899, inst.....	1947	225 00
	W. R. Lazenby.....	" " ".....	1948	225 00
	F. E. Sanborn.....	" " ".....	1949	225 00
	S. C. Derby.....	" " ".....	1950	225 00
	A. M. Bleile.....	" " ".....	1951	225 00
	R. D. Bohannan.....	" " ".....	1952	225 00
	W. T. Magruder.....	" " ".....	1953	225 00
	J. P. Gordy.....	" " ".....	1954	225 00
	W. H. Scott.....	" " ".....	1955	225 00
	B. F. Thomas.....	" " ".....	1956	225 00
	J. V. Denney.....	" " ".....	1957	225 00
	B. L. Bowen.....	" " ".....	1958	225 00
	H. Osborn.....	" " ".....	1959	225 00
	N. W. Lord.....	" " ".....	1960	200 00
	F. A. Ray.....	" " ".....	1961	200 00
	G. B. Kauffman.....	" " ".....	1962	200 00
	Edw. Orton, Jr.....	" " ".....	1963	180 00
	J. N. Bradford.....	" " ".....	1964	180 00
	H. J. Noyes.....	" " ".....	1965	166 66
	G. W. McCoard.....	" " ".....	1966	160 00
	C. P. Linhart.....	" " ".....	1967	160 00
	H. C. Lord.....	" " ".....	1968	160 00
	E. A. Hitchcock.....	" " ".....	1969	150 00
	D. S. White.....	" " ".....	1970	150 00
	W. D. Gibbs.....	" " ".....	1971	140 00
	P. G. Bowman.....	" " ".....	1972	140 00
	F. C. Caldwell.....	" " ".....	1973	140 00
	F. C. Clark.....	" " ".....	1974	135 00
	W. H. Page.....	" " ".....	1975	135 00
	S. A. Norton.....	" " ".....	1976	120 00
	R. I. Fulton.....	" " ".....	1977	120 00
	W. H. Siebert.....	" " ".....	1978	120 00
	O. B. Jones.....	" " ".....	1979	120 00
	J. E. Boyd.....	" " ".....	1980	120 00
	E. B. Kinkead.....	" " ".....	1981	110 00
	J. R. Taylor.....	" " ".....	1982	110 00
	C. E. Sherman.....	" " ".....	1983	100 00
	T. E. French.....	" " ".....	1984	100 00
	C. W. Mesloh.....	" " ".....	1985	100 00
	C. L. Arnold.....	" " ".....	1986	100 00
	K. D. Swartzel.....	" " ".....	1987	100 00
	A. W. Hodgman.....	" " ".....	1988	100 00
	W. A. Knight.....	" " ".....	1989	95 00
	C. W. Weick.....	" " ".....	1990	95 00
	F. W. Smyser.....	" " ".....	1991	80 00
	J. H. Schaffner.....	" " ".....	1992	90 00
	C. W. Foulk.....	" " ".....	1993	90 00
	J. A. Bownocker.....	" " ".....	1994	90 00
	C. A. Dye.....	" " ".....	1995	90 00
	W. L. Graves.....	" " ".....	1996	90 00
	J. S. Hine.....	" " ".....	1997	85 00
	F. L. Landacre.....	" " ".....	1998	85 00
	A. E. Vinson.....	" " ".....	1999	80 00
	E. M. Van Harlingen.....	" " ".....	2000	80 00
	M. P. Brush.....	" " ".....	2001	80 00
	C. Wissler.....	" " ".....	2002	80 00

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899. Jan. 28	S. S. James.....	Salary Jan., 1899, inst.....	2003	80 00
	Stella. Elliott.....	" ".....	2004	75 00
	E. O. Randall.....	" ".....	2005	70 00
	D. F. Pugh.....	" ".....	2006	70 00
	E. E. Harrold.....	" ".....	2007	70 00
	N. H. Brown.....	" ".....	2008	70 00
	E. E. Somermeier.....	" ".....	2009	65 00
	F. Ruhlen.....	" ".....	2010	60 00
	T. K. Lewis.....	" ".....	2011	60 00
	A. F. Hall.....	" ".....	2012	60 00
	W. F. Lavery.....	" ".....	2013	60 00
	C. B. Frederick.....	" ".....	2014	60 00
	H. Townshend.....	" ".....	2015	55 00
	J. F. Cunningham.....	" ".....	2016	54 00
	G. S. Kellicott.....	" ".....	2017	50 00
	M. D. Jeffrey.....	" ".....	2018	50 00
	A. V. Bleininger.....	" ".....	2019	40 00
	L. Allen.....	" ".....	2020	40 00
	M. Dresbach.....	" ".....	2021	30 00
	F. A. Fish.....	" ".....	2022	30 00
	A. H. McIntire.....	" ".....	2023	30 00
	E. L. Ball.....	" ".....	2024	30 00
	S. E. Rasor.....	" ".....	2025	30 00
	H. Judd.....	" ".....	2026	30 00
	F. J. Hale.....	" ".....	2027	30 00
	J. B. Parker.....	" ".....	2028	30 00
	B. F. Maag.....	" ".....	2029	30 00
	J. H. Vosskuehler.....	" ".....	2030	30 00
	E. L. Fullmer.....	" ".....	2031	25 00
	R. Fischer.....	" ".....	2032	25 00
	F. O. Clements.....	" ".....	2033	25 00
	O. V. Brumley.....	" ".....	2034	20 00
	R. C. Purdy.....	" ".....	2035	20 00
	G. W. Rightmire.....	" ".....	2036	20 00
	E. H. Bailey.....	" ".....	2037	15 00
	F. F. D. Albery.....	" ".....	2038	15 00
	J. H. Collins.....	" ".....	2039	10 00
	D. A. Kohr.....	" ".....	2040	10 00
	R. E. McIntosh.....	" ".....	2041	10 00
	C. B. Guitard.....	" ".....	2042	50 00
	H. Gamper.....	" ".....	2043	7 50
	W. C. McCracken.....	" ".....	2044	150 00
	Geo. Rose.....	" ".....	2045	65 00
	Chas. Low.....	" ".....	2046	54 17
	W. Standley.....	" ".....	2047	50 00
	B. LeBay.....	" ".....	2048	50 00
	T. Boude.....	" ".....	2049	45 00
	W. H. Case.....	" ".....	2050	45 00
	H. Martz.....	" ".....	2051	45 00
	M. Peck.....	" ".....	2052	40 00
	T. K. Lewis.....	" ".....	2053	40 00
	A. Chantler.....	" ".....	2054	40 00
	G. A. Goodspeed.....	" ".....	2055	40 00
	J. H. Brown.....	" ".....	2056	40 00
	D. D. Geren.....	" ".....	2057	40 00
	W. Whitestone.....	" ".....	2058	40 00



## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899.				
Jan. 28	H. Chantler .....	Salary Jan., 1899, inst. ....	2059	40 00
	G. C. Denny .....	" " .....	2060	40 00
	M. N. Cook .....	" " .....	2061	40 00
	T. S. Edgington .....	" " .....	2062	40 00
	T. E. Osborn .....	" " .....	2063	40 00
	J. Kelley .....	" " .....	2064	35 00
	D. C. Huddleson .....	" " .....	2065	50 00
	W. C. Mills .....	" " .....	2066	25 00
	Mrs. E. R. Hubler .....	" " .....	2067	20 00
	Wash. Townsell .....	" " .....	2068	25 00
	W. C. Wier .....	" " .....	2069	20 00
	J. C. Perry .....	" " .....	2070	12 50
	G. W. Elwell .....	" " .....	2071	40 00
	A. G. McCall .....	" " .....	2072	20 00
	J. Covan .....	" " .....	2073	44 03
	J. Garretson .....	" " .....	2074	30 00
23	L. Weeks .....	Salary Jan. 16-23 .....	2075	5 00
31	Col. Gas Co. ....	Gas .....	2076	118 80
	L. Weeks .....	Salary Jan. 23-31 .....	2077	7 00
Feb. 1	Mrs. M. J. Kellenberger	Serv. dept. dom. sci. ....	2078	10 00
	W. I. Chamberlain .....	Expense meet. Jan. 31, 1899	2079	14 95
2	R. M. Rownd, P. M. ...	Postage stamps .....	2080	41 00
8	C. Pixler .....	Salary as helper .....	2081	10 50
7	J. McL. Smith .....	Expenses meet. Jan 31, Feb. 1 .....	2082	6 40
10	Paul Jones .....	Expenses as trustee .....	2083	1 25
14	Lily Weeks .....	Salary Feb. 6-13 .....	2084	5 00
16	Mrs. M. J. Kellenberger	Serv. dept. dom. sci. ....	2085	10 00
	J. F. Mack .....	Expenses as trustee .....	2086	13 60
20	W. K. Morehead .....	Archæological coll. ....	2087	300 00
25	J. H. Canfield .....	Salary Feb., 1899, inst. ....	2088	500 00
	Alexis Cope .....	" " .....	2089	187 50
	C. E. Barnet .....	" " .....	2090	65 00
	F. W. Prentiss .....	" " .....	2091	33 33
	Jean Blackford .....	" " .....	2092	54 17
	E. D. Cockins .....	" " .....	2093	58 33
	T. F. Hunt .....	" " .....	2094	250 00
	W. F. Hunter .....	" " .....	2095	250 00
	G. W. Knight .....	" " .....	2096	250 00
	W. A. Kellerman .....	" " .....	2097	225 00
	W. McPherson .....	" " .....	2098	225 00
	C. N. Brown .....	" " .....	2099	225 00
	A. C. Barrows .....	" " .....	2100	225 00
	Edw. Orton, Sr. ....	" " .....	2101	225 00
	E. A. Eggers .....	" " .....	2102	225 00
	J. R. Smith .....	" " .....	2103	225 00
	H. A. Weber .....	" " .....	2104	225 00
	W. R. Lazenby .....	" " .....	2105	225 00
	F. E. Sanborn .....	" " .....	2106	225 00
	S. C. Derby .....	" " .....	2107	225 00
	A. M. Bleile .....	" " .....	2108	225 00
	R. D. Bohannan .....	" " .....	2109	225 00
	W. T. Magruder .....	" " .....	2110	225 00
	J. P. Gordy .....	" " .....	2111	225 00
	W. H. Scott .....	" " .....	2112	225 00
	B. F. Thomas .....	" " .....	2113	225 00

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899. Feb. 2	J. V. Denney.....	Salary Feb., 1899, inst.....	2114	225 00
	B. L. Bowen.....	" ".....	2115	225 00
	H. Osborn.....	" ".....	2116	225 00
	N. W. Lord.....	" ".....	2117	200 00
	F. A. Ray.....	" ".....	2118	200 00
	G. B. Kauffman.....	" ".....	2119	200 00
	Edw. Orton, Jr.....	" ".....	2120	180 00
	J. N. Bradford.....	" ".....	2121	180 00
	H. J. Noyes.....	" ".....	2122	166 67
	G. W. McCoard.....	" ".....	2123	160 00
	C. P. Linhart.....	" ".....	2124	160 00
	H. C. Lord.....	" ".....	2125	160 00
	E. A. Hitchcock.....	" ".....	2126	150 00
	D. S. White.....	" ".....	2127	150 00
	W. D. Gibbs.....	" ".....	2128	140 00
	P. G. Bowman.....	" ".....	2129	140 00
	F. C. Caldwell.....	" ".....	2130	140 00
	F. C. Clark.....	" ".....	2130	135 00
	W. H. Page.....	" ".....	2132	135 00
	S. A. Norton.....	" ".....	2133	120 00
	R. I. Fulton.....	" ".....	2134	120 00
	W. H. Siebert.....	" ".....	2135	120 00
	O. B. Jones.....	" ".....	2136	120 00
	J. E. Boyd.....	" ".....	2137	120 00
	E. B. Kinkead.....	" ".....	2138	110 00
	J. R. Taylor.....	" ".....	2139	110 00
	C. E. Sherman.....	" ".....	2140	100 00
	T. E. French.....	" ".....	2141	100 00
	C. W. Mesloh.....	" ".....	2142	100 00
	C. L. Arnold.....	" ".....	2143	100 00
	K. D. Swartzel.....	" ".....	2144	100 00
	A. W. Hodgman.....	" ".....	2145	100 00
	W. A. Knight.....	" ".....	2146	95 00
	C. W. Weick.....	" ".....	2147	95 00
	F. W. Smyser.....	" ".....	2148	80 00
	J. H. Schaffner.....	" ".....	2149	90 00
	C. W. Foulk.....	" ".....	2150	90 00
	J. A. Bownocker.....	" ".....	2151	90 00
	C. A. Dye.....	" ".....	2152	90 00
	W. L. Graves.....	" ".....	2153	90 00
	J. S. Hine.....	" ".....	2154	85 00
	F. L. Landacre.....	" ".....	2155	85 00
	A. E. Vinson.....	" ".....	2156	80 00
	E. M. Van Harlingen..	" ".....	2157	80 00
	M. P. Brush.....	" ".....	2158	80 00
	C. Wissler.....	" ".....	2159	80 00
	S. S. James.....	" ".....	2160	80 00
	S. M. Elliott.....	" ".....	2161	75 00
	E. O. Randall.....	" ".....	2162	70 00
	D. F. Pugh.....	" ".....	2163	70 00
	E. E. Harrold.....	" ".....	2164	70 00
	N. H. Brown.....	" ".....	2165	70 00
	E. E. Somermeier.....	" ".....	2166	65 00
	F. Ruhlen.....	" ".....	2167	60 00
	T. K. Lewis.....	" ".....	2168	60 00
	A. F. Hall.....	" ".....	2169	60 00

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899. Feb. 25	W. F. Lavery.....	Salary Feb., 1899, inst .....	2170	60 00
	C. B. Frederick.....	" " .....	2171	60 00
	H. Townshend .....	" " .....	2172	55 00
	J. F. Cunningham.....	" " .....	2173	54 00
	G. S. Kellicott.....	" " .....	2174	50 00
	M. D. Jeffrey.....	" " .....	2175	50 00
	A. V. Bleininger.....	" " .....	2176	40 00
	Lucy Allen .....	" " .....	2177	40 00
	M. Dresbach .....	" " .....	2178	30 00
	F. A. Fish.....	" " .....	2179	30 00
	A. H. McIntire.....	" " .....	2180	30 00
	E. B. Ball.....	" " .....	2181	30 00
	S. E. Rasor.....	" " .....	2182	30 00
	H. Judd .....	" " .....	2183	30 00
	F. J. Hale.....	" " .....	2184	30 00
	J. B. Parker.....	" " .....	2185	30 00
	B. F. Maag.....	" " .....	2186	30 00
	J. H. Vosskuehler.....	" " .....	2187	30 00
	E. L. Fullmer.....	" " .....	2188	25 00
	R. Fischer .....	" " .....	2189	25 00
	F. O. Clements.....	" " .....	2190	25 00
	O. V. Brumley.....	" " .....	2191	20 00
	R. C. Purdy.....	" " .....	2192	20 00
	G. W. Rightmire.....	" " .....	2193	20 00
	E. H. Bailey.....	" " .....	2194	15 00
	F. F. D. Alberty.....	" " .....	2195	15 00
	J. H. Collins.....	" " .....	2196	10 00
	D. A. Kohr.....	" " .....	2197	10 00
	R. E. McIntosh.....	" " .....	2198	10 00
	C. B. Guittard.....	" " .....	2199	50 00
	H. Gamper .....	" " .....	2200	7 50
	W. C. McCracken.....	" " .....	2201	150 00
	Geo. Rose .....	" " .....	2202	65 00
	Chas. Low .....	" " .....	2203	54 17
	W. Standley .....	" " .....	2204	50 00
	B. LeBay .....	" " .....	2205	50 00
	T. Boude .....	" " .....	2206	45 00
	W. H. Case.....	" " .....	2207	45 00
	H. Martz .....	" " .....	2208	45 00
	M. Peck .....	" " .....	2209	40 00
	T. K. Lewis.....	" " .....	2210	40 00
	A. Chantler .....	" " .....	2211	40 00
	G. A. Goodspeed.....	" " .....	2212	40 00
	J. H. Brown.....	" " .....	2213	40 00
	D. D. Geren.....	" " .....	2214	40 00
	W. Whitestine .....	" " .....	2215	40 00
	H. Chantler .....	" " .....	2216	40 00
	G. C. Denny.....	" " .....	2217	40 00
	M. V. Cook.....	" " .....	2218	40 00
	T. S. Edgington.....	" " .....	2219	40 00
	T. E. Osborn.....	" " .....	2220	40 00
	J. Kelley .....	" " .....	2221	35 00
	D. C. Huddleson.....	" " .....	2222	50 00
	W. C. Mills.....	" " .....	2223	25 00
	Mrs. E. R. Hubler....	" " .....	2224	20 00
	Wash. Townsell.....	" " .....	2225	25 00

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899.				
Feb. 25	W. C. Wier.....	Salary Feb., 1899, inst. ....	2226	20 00
	J. C. Perry.....	" " .....	2227	12 50
	G. W. Elwell.....	" " .....	2228	40 00
	A. G. McCall.....	" " .....	2229	20 00
	J. Garretson .....	" " .....	2230	36 00
	J. Covan .....	" " .....	2231	65 00
25	Lily Weeks .....	Salary Feb. 12-30 .....	2232	5 00
21	N. F. Pheneger.....	Butter fat .....	2233	113 92
25	T. J. Godfrey.....	Expenses trustee .....	2234	20 65
	C. Souther .....	Salary ½ mo., Feb. 14-28... ..	2235	40 00
	C. H. Woodruff.....	Salary Jan., 1899 .....	2236	60 00
	C. H. Woodruff.....	" Feb., 1899 .....	2237	60 00
28	F. R. West.....	Services as guide .....	2238	4 87
	M. Snow .....	" " .....	2239	2 87
	F. C. Caldwell.....	" supt .....	2240	75 00
	R. J. Seymour.....	" messenger .....	2241	4 25
	T. C. McKinney.....	" guide .....	2242	3 87
	F. J. Pavlicek.....	" " .....	2243	2 87
	W. S. Orvis.....	Office supplies .....	2244	3 85
	E. O. Vaile.....	Ohio Directory .....	2245	1 00
	J. H. Canfield.....	Cash for sundries .....	2246	15 00
	Nitschke Bros .....	Printing .....	2247	20 60
	Ruggles Gale Co.....	Cabinet file .....	2248	2 00
	Hann & Adair .....	Printing .....	2249	10 10
	F. O. Schoedinger.....	Tin boxes .....	2250	2 00
	M. Armbruster & Sons.	Changing scenery .....	2251	5 00
	Cherington P. & E. Co.	Dater .....	2252	50
	Col. Rubber & B. Co.	Waste .....	2253	14 70
	B. D. Potts.....	Repairs .....	2254	25
	Hutton Bros .....	Painting .....	2255	1 75
	Standard Oil Co.....	Oil .....	2256	39 59
	Col. Supply Co.....	Repairs .....	2257	1 35
	H. Braun Sons & Co.	Oil .....	2258	1 95
	Mitchell Adv. Co.....	Depot time card .....	2259	60
	Cent. U. Tel. Co.....	Telephone rent .....	2260	96 75
	Mrs. F. D. Meyers....	Laundry .....	2261	2 00
	Yardley & Harsh.....	Mop buckets .....	2262	4 50
	Annis McLaughlin ....	Extra work .....	2263	4 65
	J. Penn .....	Drayage .....	2264	25
	Am. Dist. Tel. Co.....	Messenger service .....	2265	5 30
	Champlin Ptg. Co.....	Printing .....	2266	52 10
	Webb Sta. & Ptg. Co..	Record book .....	2267	2 40
	West. U. Tel. Co.....	Messages .....	2268	4 60
	P. Hano.....	Carbon paper .....	2269	2 25
	Tracy Wells Co.....	Mops, etc.....	2270	12 01
	Krauss, B. & B. Co...	Shades .....	2271	9 00
	Hanna Pt. Mfg. Co.....	Paint .....	2272	4 60
	Col. Rubber & B. Co.	Hdwe supplies .....	2273	14 35
	B. D. Potts.....	" .....	2274	10 36
	Col. Supply Co.....	" .....	2275	12
	Vogelgesang Fur. Co..	Furnace repair .....	2276	23 70
	Tallmadge Hdw. Co...	Glass .....	2277	2 99
	W. Morelan .....	Carpentry .....	2278	40
	J. H. Randall.....	" .....	2289	5 25
	Palmer & Beck.....	Metal roofing .....	2280	33 17
	General Elec. Co.....	Regulator .....	2281	144 00



## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899.				
Feb. 28	M. L. Blose.....	Labor .....	2282	45
	H. C. Nidy.....	" .....	2283	6 31
	M. C. Hunter.....	" .....	2284	8 77
	R. E. McIntosh.....	" .....	2285	17 50
	J. Hertner .....	" .....	2286	90
	Eaton Mch. Wks.....	Forging .....	2287	1 80
	H. A. Morgan.....	Screens and shades .....	2288	10 00
	W. N. Saunders.....	Papering .....	2289	37 70
	Cap. City Mch. Wks...	Repairing .....	2290	13 06
	Champlin Ptg. Co.....	Printing .....	2291	26 25
	C. F. Sprague.....	Lantern advertising .....	2292	10 00
	Lillian Burt .....	Advertising .....	2293	15 00
	A. F. Wilcox.....	Labor .....	2294	6 15
	Library Bureau .....	Library supplies .....	2295	3 75
	Am. Soc. of M. Eng...	Book .....	2296	1 25
	D. C. Munro.....	" .....	2297	1 00
	Helman F. Co.....	" .....	2298	28 25
	Kelton & Converse...	Lumber .....	2299	4 24
	J. H. Randall.....	Carpentry .....	2300	8 50
	Sheehan & Co.....	Books .....	2301	15 75
	O. S. Lear.....	Carbon paper .....	2302	40
	Boston Book Co.....	Magazines .....	2303	12 00
	Serephim B. B. Co....	Books .....	2304	103 35
	A. H. Smythe.....	Ink .....	2305	60
	J. Penn .....	Draying .....	2306	1 50
	I. H. Miller.....	Notarial work .....	2307	3 20
	Burrows Bros. Co....	books .....	2308	121 09
	G. E. Stechert.....	" .....	2309	790 71
	Knauth W. & K.....	" .....	2310	9 73
	Wilbert Morelan .....	Carpentry .....	2311	2 60
	Miami Powder Co....	Charcoal .....	2312	83
	Chicago Blue Pt. P. Co.	B. P. paper .....	2313	2 64
	A. E. Foote.....	Chemicals .....	2314	12 65
	Kauffman Lattimer Co.	Apparatus and chemicals....	2315	141 39
	Green, Joyce & Co....	Towels .....	2316	13 80
	Chic. Lab. S. & S. Co..	Apparatus .....	2317	9 30
	Baker & Co.....	Platinum .....	2318	13 71
	Kimball & Mathews...	Photo supplies .....	2319	11 61
	Mallenckrodt Ch. Wks.	Chemicals .....	2320	57 56
	Franklin Toil. Sup. Co.	Laundry .....	2321	3 39
	Creamery P. Mfg. Co..	Dairy supplies .....	2322	66 78
	F. S. Johnston.....	Clerical work .....	2323	15 90
	J. Boyd .....	Bottle filler .....	2324	11 70
	R. A. McClure.....	Lumber .....	2325	2 41
	Blackwood, G. & Co..	Hdwe .....	2326	64 56
	C. p. City Mch. Wks..	" .....	2327	5 15
	M. Imes .....	Lab. assistance .....	2328	20 00
	O. Erf .....	" .....	2329	20 00
	A. H. Reid.....	Dairy supplies .....	2330	20 00
	Hoster Brew. Co.....	Sprouts .....	2331	11 28
	E. Smith .....	Lab. assistance .....	2332	20 00
	E. C. Livenspire.....	Smithing .....	2333	10 15
	J. Immel & Sons.....	Repairs .....	2334	6 35
	Cher. Ptg. & Eng. Co..	Labels .....	2335	3 00
	Col. Gas Co.....	Irons .....	2336	1 65
	Col. Supply Co.....	Hdwe .....	2337	13 94

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899.				
Feb. 28	Barber Mfg. Co.....	Repairs .....	2338	31 50
	Plain City Creamery..	Milk .....	2339	163 80
	B. D. Potts.....	Hdwe .....	2340	8 48
	Burrell & Co.....	Dairy supplies .....	2341	3 38
	Kelton & Converse....	Lumber .....	2342	2 90
	M. A. Seed Co.....	Mdse .....	2343	1 26
	Tallmadge Hdw. Co...	Hdwe .....	2344	1 04
	Ruggles Gale Co.....	Paper .....	2345	2 75
	Harvard University ...	Astro. telegrams .....	2346	9 93
	Chem. Elec. Co.....	Damiels' cells .....	2347	4 52
	Franklin Toil. Sup. Co.	Laundry .....	2348	75
	Jo. of Com. & Com. Bu.	Books .....	2349	3 00
	Colt & Co.....	Opt. lantern .....	2350	44 15
	H. Cole .....	Reader .....	2351	60
	Tallmadge Hdw. Co...	Bolts .....	2352	10
	J. McAllister .....	Labor .....	2353	43 75
	Eagle Hdw. Co.....	Mdse .....	2354	4 32
	Barber Mfg. Co.....	Hdwe .....	2355	15 30
	Elliot & Maclean.....	Boxes .....	2356	10 50
	Haydenv'le M. & M. Co	Brick .....	2357	8 76
	Col. Gas Co.....	Coke .....	2358	6 17
	Col. Transfer Co.....	Ft. and dray .....	2359	1 24
	C. Engelhard .....	Porcelain tubes .....	2360	16 50
	W. Cannan .....	Labor .....	2361	12 50
	Tallmadge Hdw. Co...	Hdwe .....	2362	1 25
	Col. Gas Co.....	Lights .....	2363	1 50
	Whitall, Tatem & Co.	Mdse .....	2364	51 04
	Champlin Ptg. Co.....	Printing .....	2365	4 10
	Nitschke Bros .....	Stationery .....	2366	1 65
	Cap. City Mch. Wks...	Locks .....	2367	2 00
	S. T. Hallsman.....	Painting .....	2368	20 00
	C. P. Linville.....	Labor .....	2369	1 20
	B. D. Potts.....	Hdwe .....	2370	7 21
	J. M. Barringer.....	Labor .....	2371	2 55
	Palmer & Beck.....	Galvanized hood .....	2372	7 00
	W. Morelan .....	Carpentry .....	2373	2 20
	Blackwood, G. & Co..	Iron can .....	2374	3 00
	Col. Coal & Lime Co..	Cement .....	2375	2 25
	Hann & Adair.....	Printing .....	2376	4 00
	C. H. Davis.....	Sewing machine .....	2377	35 00
	Am. Elec. H. Co.....	Laundry iron .....	2378	7 50
	Schermerham & Co ...	Demonstration frames .....	2379	2 00
	Pratt Institute .....	Pamphlets .....	2380	2 50
	Bradley, Munk & Co.	Shears .....	2381	3 00
	Spencer Lens Co.....	Microscope .....	2382	37 50
	Z. L. White & Co.....	Gingham .....	2383	1 18
	Hagar & Graves.....	Groceries .....	2384	24 22
	McClelland & Co.....	Stationery .....	2385	1 90
	Parisian Cloak Co....	Dry goods .....	2386	3 09
	Krauss, B. & B. Co....	Hassocks .....	2387	84
	P. G. Bowman.....	Cash paid for groceries .....	2388	2 41
	Dunn, Taft & Co.....	Dry goods .....	2389	3 98
	Cent. Ohio Paper Co..	Paper .....	2390	3 65
	Mrs. J. F. James.....	Cash paid for supplies .....	2391	3 40
	Weisman & Lilley.....	Dry goods .....	2392	1 76
	Alpheia Dairy Co.....	Balance ac.....	2393	1 50

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899. Feb. 28	F. C. Clark.....	Stationery .....	2394	4 75
	Tallmadge Hdw. Co...	Hdwe .....	2395	24 04
	Elec. Appliance Co...	Elect. supplies .....	2396	27 64
	Nitschke Bros .....	Stationery .....	2397	3 00
	Schoedinger, F. & Co..	Hdwe .....	2398	2 31
	West. Elec. Co.....	Van de Poele machine ...	2399	2 50
	Hann & Adair .....	Stationery .....	2400	4 50
	Union Mfg. Co.....	Chuck .....	2401	16 00
	J. A. Erner & Co.....	Elect. supplies .....	2402	5 06
	J. P. Carlile .....	Plaster .....	2403	2 50
	Drawing Sup. Store...	Draw. supplies .....	2404	1 70
	Schoedinger, F. & Co..	Refrigerator .....	2405	22 75
	Ohio Tool Co.....	Boxwood .....	2406	2 40
	Blackwood, G. & Co..	Hardware .....	2407	22 10
	Miller Furn. Co.....	Stools .....	2408	10 00
	Kimball & Mathews...	Printing frames .....	2409	6 00
	B. D. Potts.....	Hdwe .....	2410	10 85
	J. H. Randall.....	Carpentry .....	2411	2 25
	Tallmadge Hdw. Co...	Paint .....	2412	25
	E. Orton .....	Cash for sundries .....	2413	17 02
	Jas. Penn .....	Draying .....	2414	1 00
	W. N. Saunders.....	Papering .....	2415	19 25
	Tallmadge Hdw. Co...	Paint .....	2416	35
	H. Cole .....	Thermometers .....	2417	2 50
	J. C. Porterfield.....	Dynamite .....	2418	4 35
	Wm. Roberts .....	Labor .....	2419	10 80
	W. Morelan .....	Carpentry .....	2420	1 00
	J. H. Nold.....	Labor .....	2421	4 80
	G. M. Berndroth.....	" .....	2422	8 80
	Tallmadge Hdw. Co...	Hdwe .....	2423	16 51
	A. H. Smythe.....	Stationery .....	2424	3 25
	G. B. Schulte Sons Co.	Lumber .....	2425	22 49
	Kelton & Converse...	" .....	2426	138 43
	H. Gamper .....	Labor .....	2427	2 48
	W. Erdman .....	" .....	2428	8 66
	Blackwood, G. & Co..	Hdwe .....	2429	1 14
	Col. Varnish Co.....	Paint .....	2430	10 20
	P. Hayden S. Hdw. Co	Copper .....	2431	5 22
	Hann & Adair.....	Painting .....	2432	1 75
	Drawing Supply Store.	Drawing supplies .....	2433	9 20
	McClelland & Co.....	Neostyle paper .....	2434	1 10
	H. Cole .....	B. P. paper .....	2435	2 20
	Cent. O. Paper Co.....	Paper .....	2436	2 50
	Kilbourne Jones Co...	Hdwe .....	2437	4 89
	B. B. Wells.....	Labor .....	2438	30 83
	S. C. Derby.....	Cash paid for book .....	2439	1 30
	Hann & Adair.....	Printing .....	2440	2 45
	L. Weeks .....	Salary to Feb. 27.....	2441	4 00
	Franklin Toil. Sup. Co.	Laundry .....	2442	2 00
	C. H. Besly & Co.....	Brass tubing .....	2443	36
	Crosby S. G. & V. Co..	Ammonia indicator .....	2444	74 26
	Shilling Fdy. Co.....	Test bars .....	2445	24 83
	Tallmadge Hdw. Co...	Hdwe .....	2446	2 90
	J. D. Martin, Jr.....	Labor .....	2447	22
	G. G. Leinbaugh.....	" .....	2448	23
	A. H. Lyon.....	" .....	2449	53

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899. Feb. 28	E. G. Bailey.....	Labor .....	2450	1 00
	Nitschke Bros .....	Paper .....	2451	1 50
	W. T. Magruder.....	Telegram .....	2452	69
	E. H. Bailey.....	Services .....	2453	13 20
	L. S. Starrett Co.....	Points .....	2454	19
	Keasbey & M. Co.....	Pipe coering .....	2455	11 86
	Jos. Wilckes .....	Weighing globe .....	2456	3 60
	J. A. Erner & Co.....	Switch .....	2457	13
	Cap. City Mch. Wks..	Castings .....	2458	69
	Col. Brass Co.....	" .....	2459	4 00
	Simmons Hdw. Co....	Cup points .....	2460	1 75
	Col. Supply Co.....	Hdwe supplies .....	2461	24 42
	R. R. Harkins.....	Labor .....	2462	22
	Tallmadge Hdw. Co....	Hdwe .....	2463	2 20
	Blackw'd, Green & Co.	" .....	2464	36 77
	J. S. Abbott & Co.....	Glass .....	2465	96
	Col. Gas Co.....	Coke .....	2466	7 60
	Kelton & Converse....	Lumber .....	2467	6 11
	W. Morelan .....	Carpentry .....	2468	1 00
	J. H. Randall.....	" .....	2469	28 75
	A. D. Morely.....	" .....	2470	5 75
	M. P. Streett.....	Masonry .....	2471	173 70
	Champlin Ptg. Co.....	Printing .....	2472	2 50
	H. Goldsmith .....	Music .....	2473	4 25
	Keuffel & Esser Co....	Engineering instruments...	2474	27 62
	Col. Supply Co.....	Hdwe supplies .....	2475	8 26
	W. B. Calkins.....	Work in store-room .....	2476	36 90
	R. W. Funk.....	" .....	2477	13 27
	J. H. Randall.....	Carpentry .....	2478	6 50
	W. N. Saunders.....	Painting .....	2479	1 50
	A. Spittal .....	Scientific instruments .....	2480	41 35
	H. Kaiser .....	Hdwe .....	2481	1 28
	I. Melling .....	Baskets .....	2482	4 50
	J. & G. Butler.....	Soap .....	2483	20 00
	J. C. Sherwood.....	Basket ball .....	2484	4 50
	G. W. Clark & Co....	Lumber .....	2485	6 80
	McClelland & Co.....	Office supplies .....	2486	10 27
	Schoedinger, F. & Co..	Hdwe .....	2487	8 51
	Fkl. Toil. Sup. Co....	Laundry .....	2488	36 61
	C. P. Linhart.....	Repairs .....	2489	1 80
	West. Elec. Co.....	Elect supplies .....	2490	11 13
	Ziegler Elec. Co.....	" apparatus .....	2491	6 39
	J. M. & W. Westwater.	Shakers .....	2492	7 50
	Library Bureau .....	Brass tips .....	2493	7 20
	Miller Furn. Co.....	Tables .....	2494	9 00
	H. J. Green.....	Scientific instruments .....	2495	48 00
	Wm. Gaertner & Co....	Scientific instruments .....	2496	175 00
	Clev. Mch. & Screw Co.	Steel balls .....	2497	2 80
	Champlin Ptg. Co.....	Printing .....	2498	2 50
	Hammond & Sparh'k.	Feeding stock .....	2499	30 50
	Col. Wire & I. Wks...	Wire guards .....	2500	10 00
	Reynolds Bros .....	Repairs .....	2501	50
	H. Braun Sons & Co..	Museum jars .....	2502	12 00
	Hann & Adair .....	Printing .....	2503	2 40
	Tallmadge Hdw. Co....	Hdwe .....	2504	2 86
	J. S. Hine.....	Book .....	2505	2 95



## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899.				
Feb. 28	H. Braun Sons & Co...	Drugs and supplies .....	2506	2 82
	Schoedinger, F. & Co..	Letter scale .....	2507	2 25
	A. W. Jackson & Son..	Binding .....	2508	13 05
	F. L. Landacre.....	Specimens .....	2509	1 50
	Col. Supply Co.....	Hdwe supplies .....	2510	8 15
	W. N. Saunders.....	Papering .....	2511	30 39
	Engelke & Bigelow...	Freight and dray.....	2512	38 74
	Murray City Coal Co..	Coal .....	2513	1,164 44
	Mrs. M. J. Kellenberger	Serv. dept. dom. sci.....	2514	10 00
March 4	W. I. Chamberlain....	Expenses trustee .....	2515	13 45
6	Col. Gas Co.....	Gas .....	2516	112 95
	Lily Weeks .....	Salary to Mar. 3.....	2517	5 00
7	T. J. Godfrey.....	Expenses meeting .....	2518	9 15
10	F. C. McKinney.....	Guide serv.....	2519	4 87
	F. R. West.....	" .....	2520	2 12
	M. Snow .....	" .....	2521	1 87
	R. J. Seymour.....	" .....	2522	4 25
	F. J. Pavlicek.....	" .....	2523	4 25
	E. C. Karshner.....	" .....	2524	2 00
	Mrs. E. R. Hubler....	Clerical work .....	2525	5 19
	C. H. Woodruff.....	Draying .....	2526	2 50
	A. A. Ag. Col. & E. Sta	Membership .....	2527	10 00
	W. S. Orvis.....	Supplies .....	2528	3 10
	Quinius & Ridenour..	Files .....	2529	1 00
	J. M. & W. Westwater.	Lamp burners .....	2530	75
	Mrs. F. D. Meyers....	Laundry .....	2531	1 13
	Am. Dist. Tel. Co....	Service .....	2532	2 10
	C. U. Tel. Co.....	" .....	2533	4 30
	A. McLaughlin.....	Clerical work .....	2534	1 95
	H. R. Powell.....	" .....	2535	4 35
	C. E. Bedwell.....	Fire ins.....	2536	41 25
	Lauterbach & Eilber...	" .....	2537	27 50
	Bryson, B. & Co.....	" .....	2538	68 74
	Bancroft & McElroy...	" .....	2539	27 50
	Masury, Young & Co..	Oil .....	2540	23 82
	McAllister, M. & Co..	Furniture .....	2541	20 50
	D. C. Beggs Co.....	Rug and screen .....	2542	20 00
	Vogelgesang Fur. Co..	Grate .....	2543	3 20
	C. Pixler .....	Labor .....	2544	18 00
	Puntenney, E. & Co...	Piano use .....	2545	4 00
	H. Goldsmith .....	Mdse .....	2546	12 37
	O. S. Journal Co.....	Advertising .....	2547	20 00
	Zanesville High School	Advertising .....	2548	10 00
	O. T. Corson.....	" .....	2549	22 50
	Myers Bros .....	Printing .....	2550	3 00
	Yardley & Harsh.....	Waste basket .....	2551	75
	W. H. Lowdermilk...	Reports .....	2552	16 00
	O. S. Lear .....	Furniture .....	2553	12 50
	Writer Pub. Co.....	"The Writer" .....	2554	15
	Am. Pharm. Assn.....	Books .....	2555	5 50
	Publishers' Weekly ...	Catalogue .....	2556	3 50
	Am. Inst. of E. E.....	Subscription .....	2557	5 00
	Burrows Bros. Co.....	Books .....	2558	42 82
	Century Co .....	Century .....	2559	29
	Ginn & Co.....	Book .....	2560	2 00
	W. H. Siebert.....	" .....	2561	1 90

## STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899. March 10	I. Ingram .....	Work in library .....	2562	5 40
	H. R. Farnham.....	" .....	2563	4 40
	L. T. Williams.....	" .....	2564	23 00
	G. E. Stechert.....	Books .....	2565	340 39
	P. P. Hannon.....	Clerical work .....	2566	2 00
	Kauffman Lattimer Co.	Chemicals .....	2567	69 30
	Glucose S. Ref. Co....	Meal .....	2568	39 00
	M. Imes .....	Lab. assistance .....	2569	20 00
	O. Erf .....	" .....	2570	20 00
	E. Smith .....	" .....	2571	40 00
	Franklin Toil. Sup. Co.	Laundry .....	2572	1 75
	F. S. Johnston.....	Clerical work .....	2573	13 15
	C. O. Zavitz.....	Expenses delegate .....	2574	13 57
	J. F. Cunningham.....	Sundries .....	2575	1 40
	M. Mills .....	Work in museum .....	2576	11 87
	B. D. Potts.....	Hdwe .....	2577	2 72
	Standard Oil Co.....	Oil .....	2578	98
	H. Cole .....	Paper .....	2579	1 25
	Col. Gas Co.....	Coke .....	2580	6 89
	Penna. Fuel Co.....	Coal .....	2581	11 28
	E. Orton, Jr.....	Clerical work .....	2582	2 24
	Haydenv'le M. & M. Co	Clay .....	2583	5 71
	Dundon & Co.....	Sawdust .....	2584	3 00
	J. McAllister .....	Labor .....	2585	30 00
	W. Cannan .....	" .....	2586	10 00
	L. Fink .....	Molding .....	2587	1 92
	Colt. & Co.....	Lamp burners .....	2588	85
	F. Jeffrey .....	Labor .....	2589	6 90
	Nitschke Bros. ....	Printing .....	2590	9 27
	Elliot & Maclean.....	Lumber .....	2591	37 16
	Hager & Graves.....	Groceries .....	2592	9 93
	Krauss, B. & B. Co....	Brass rings .....	2593	1 00
	J. Schermhorn .....	Scissors .....	2594	4 15
	Miller Furn. Co.....	Furniture .....	2595	164 75
	W. Morelan .....	Carpentry .....	2596	2 80
	S. T. Hallsman.....	Painting .....	2597	10 00
	T. K. Lewis.....	Supplies .....	2598	3 25
	Thompson & Co.....	" .....	2599	116 06
	E. Doddington & Co...	Furniture .....	2600	26 00
	Polley & Co.....	Books .....	2601	20 00
	T. H. McAllister.....	Lantern slides .....	2602	9 13
	Bausch & L. Opt. Co..	Microscope .....	2603	14 95
	A. Spittal .....	Labor .....	2604	37 33
	General Elec. Co.....	Elect. apparatus .....	2605	76 00
	J. G. Biddle.....	" .....	2606	92 55
	Queen & Co.....	Scientific apparatus .....	2607	129 60
	Schoedinger, F. & Co..	Hdwe .....	2608	8 70
	E. J. Oslar.....	Specimens .....	2609	14 50
	R. C. Osburn.....	Work in museum .....	2610	8 55
	Spahr & Glenn.....	Printing .....	2611	1 75
	Col. Supply Co.....	Hdwe supplies .....	2612	40
	Cent. Ohio Paper Co..	Paper .....	2613	27 75
	Lincoln Elec. Co.....	Disks .....	2614	31 50
	West'gh'use E. & M. Co	Elect. supplies .....	2615	95
	R. E. McIntosh.....	Labor .....	2616	5 25
	Mansfield T. Cop. Co..	Common segments .....	2617	10 73

## STATEMENT II—Continued

Date.	To whom paid.	For what purpose.	No.	Amount.
1899. March 10	Elec. Appliance Co....	Elect. supplies .....	2618	16 20
	Blackwood, G. & Co....	Hdwe .....	2619	3 52
	Morse Tw't D. & M. Co	Drills .....	2620	21 23
	C. A. Sterlinger & Co.	Tools .....	2621	20 13
	Wm. Erdman .....	Labor .....	2622	20 43
	B. B. Wells.....	" .....	2623	10 88
	H. Gamper .....	" .....	2624	18 83
	J. H. Nold.....	" .....	2625	1 05
	G. M. Berndroth.....	" .....	2626	6 40
	Kilbourne Jones Co....	Locks .....	2627	2 25
	K. Nurian .....	Labor .....	2628	12 00
	H. J. Noyes.....	Salary March inst.....	2629	166 67
	L. C. Warden.....	Thermometers .....	2630	80
	Denning & Co.....	Hdwe .....	2631	18 90
	Payne McD. Hdw. Co.	" .....	2632	62 40
	E. Thompson & Co....	Enc. of Law.....	2633	6 00
	F. N. Beebe.....	Iowa Reports .....	2634	148 50
	Anderson & Co.....	Books .....	2635	24 00
	Cap. City Mch. Wks..	Hdwe .....	2636	5 11
	C. E. Barnet.....	Clerical work .....	2637	12 65
	Dunn, Taft & Co.....	Velvet .....	2638	1 40
	E. H. Bailey.....	Extra services .....	2639	7 95
	E. G. Bailey.....	Labor .....	2640	2 56
	F. J. Hale.....	" and material .....	2641	12 60
	McClelland & Co.....	Office supplies .....	2642	4 00
	C. Wissler .....	Stationery .....	2643	11 20
	R. W. Funk.....	Labor .....	2644	13 20
	Keyless Lock Co.....	Lock .....	2645	1 00
	Heath & Co.....	Books .....	2646	4 72
	W. F. Lavery.....	Services .....	2647	21 00
	Murray City Coal Co..	Coal .....	2648	1,150 03
	Engelke & Bigelow....	Freight and drayage .....	2649	27 35
	Col. M. & M. Sup. Co.	Hdwe supplies .....	2650	21 82
	Champlin Ptg. Co.....	Printing .....	2651	17 10
	Kelton & Converse....	Lumber .....	2652	54 21
	Tallmadge Hdw. Co....	Hdwe .....	2653	29 80
	M. C. Hunter.....	Labor .....	2654	4 73
13	Lily Weeks .....	Salary March 6-13, 1899...	2655	5 00
14	Lawrence Maxwell ....	Services Page will case....	2656	500 00
24	Mrs. M. J. Kellenberger	" dept. dom. sci.....	2657	15 00
25	J. H. Canfield.....	Salary March, 1899, inst...	2658	500 00
	Alexis Cope .....	" .....	2659	187 50
	C. E. Barnet.....	" .....	2660	65 00
	F. W. Prentiss.....	" .....	2661	33 33
	Jean Blackford .....	" .....	2662	54 17
	E. D. Cockins.....	" .....	2663	58 33
	T. F. Hunt.....	" .....	2664	250 00
	W. F. Hunter.....	" .....	2665	250 00
	G. W. Knight.....	" .....	2666	250 00
	W. A. Kellerman.....	" .....	2667	225 00
	W. McPherson .....	" .....	2668	225 00
	C. N. Brown.....	" .....	2669	225 00
	A. C. Barrows.....	" .....	2670	225 00
	Edw. Orton.....	" .....	2671	225 00
	E. A. Eggers.....	" .....	2672	225 00
	J. R. Smith.....	" .....	2673	225 00

## STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899. March 10	H. A. Weber.....	Salary March, 1899, inst ...	2674	225 00
	W. R. Lazenby.....	" " " " .....	2675	225 00
	F. E. Sanborn.....	" " " " .....	2676	225 00
	S. C. Derby.....	" " " " .....	2677	225 00
	A. M. Bleile.....	" " " " .....	2678	225 00
	R. D. Bohannan.....	" " " " .....	2679	225 00
	W. T. Magruder.....	" " " " .....	2680	225 00
	J. P. Gordy.....	" " " " .....	2681	225 00
	W. H. Scott.....	" " " " .....	2682	225 00
	B. F. Brown.....	" " " " .....	2683	225 00
	J. V. Denney.....	" " " " .....	2684	225 00
	B. L. Bowen.....	" " " " .....	2685	225 00
	H. Osborn .....	" " " " .....	2686	225 00
	N. W. Lord.....	" " " " .....	2687	200 00
	F. A. Ray.....	" " " " .....	2688	200 00
	G. B. Kauffman.....	" " " " .....	2689	200 00
	Edw. Orton, Jr.....	" " " " .....	2690	180 00
	J. N. Bradford.....	" " " " .....	2691	180 00
	G. W. McCoard.....	" " " " .....	2692	160 00
	C. P. Linhart.....	" " " " .....	2693	160 00
	H. C. Lord.....	" " " " .....	2694	160 00
	E. A. Hitchcock.....	" " " " .....	2695	150 00
	D. S. White.....	" " " " .....	2696	150 00
	W. D. Gibbs.....	" " " " .....	2697	140 00
	P. G. Bowman.....	" " " " .....	2698	140 00
	F. C. Caldwell.....	" " " " .....	2699	140 00
	F. C. Clark.....	" " " " .....	2700	135 00
	W. H. Page.....	" " " " .....	2701	135 00
	S. A. Norton.....	" " " " .....	2702	120 00
	R. I. Fulton.....	" " " " .....	2703	120 00
	W. H. Siebert.....	" " " " .....	2704	120 00
	O. B. Jones.....	" " " " .....	2705	120 00
	J. E. Boyd.....	" " " " .....	2706	120 00
	E. B. Kinkead.....	" " " " .....	2707	110 00
	J. R. Taylor.....	" " " " .....	2708	110 00
	C. E. Sherman.....	" " " " .....	2709	100 00
	T. E. French.....	" " " " .....	2710	100 00
	C. W. Mesloh.....	" " " " .....	2711	100 00
	C. L. Arnold.....	" " " " .....	2712	100 00
	K. D. Swartzel.....	" " " " .....	2713	100 00
	A. W. Hodgman.....	" " " " .....	2714	100 00
	W. A. Knight.....	" " " " .....	2715	95 00
	C. W. Weick.....	" " " " .....	2716	95 00
	F. W. Smyser.....	" " " " .....	2717	80 00
	J. H. Schaffner.....	" " " " .....	2718	90 00
	C. W. Foulk.....	" " " " .....	2719	90 00
	J. A. Bownocker.....	" " " " .....	2720	90 00
	C. A. Dye.....	" " " " .....	2721	90 00
	W. L. Graves.....	" " " " .....	2722	90 00
	J. S. Hine.....	" " " " .....	2723	85 00
	F. L. Landacre.....	" " " " .....	2724	85 00
	A. E. Vinson.....	" " " " .....	2725	80 00
	E. M. Van Harlinger..	" " " " .....	2726	80 00
	M. P. Brush.....	" " " " .....	2727	80 00
	C. Wissler .....	" " " " .....	2728	80 00
	C. Souther .....	" " " " .....	2729	80 00



## STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899. March 25	S. M. Elliott.....	Salary March, 1899, inst ...	2730	75 00
	E. O. Randall.....	" " " " .....	2731	70 00
	D. F. Pugh.....	" " " " .....	2732	70 00
	E. E. Harrold.....	" " " " .....	2733	70 00
	N. H. Brown.....	" " " " .....	2734	70 00
	E. E. Somermeier.....	" " " " .....	2735	65 00
	F. Rühlen .....	" " " " .....	2736	60 00
	T. K. Lewis.....	" " " " .....	2737	60 00
	A. F. Hall.....	" " " " .....	2738	60 00
	W. F. Lavery.....	" " " " .....	2739	60 00
	C. B. Frederick.....	" " " " .....	2740	60 00
	H. Townshend .....	" " " " .....	2741	55 00
	J. F. Cunningham.....	" " " " .....	2742	54 00
	G. S. Kellicott.....	" " " " .....	2743	50 00
	M. D. Jeffrey.....	" " " " .....	2744	50 00
	A. V. Bleiningner.....	" " " " .....	2745	40 00
	L. Allen .....	" " " " .....	2746	40 00
	M. Dresbach .....	" " " " .....	2747	30 00
	F. A. Fish.....	" " " " .....	2748	30 00
	A. H. McIntire.....	" " " " .....	2749	30 00
	E. L. Ball.....	" " " " .....	2750	30 00
	S. E. Rasor.....	" " " " .....	2751	30 00
	H. Judd.....	" " " " .....	2752	30 00
	F. J. Hale.....	" " " " .....	2753	30 00
	J. B. Parker.....	" " " " .....	2754	30 00
	B. F. Maag.....	" " " " .....	2755	30 00
	J. H. Vosskuehler.....	" " " " .....	2756	30 00
	E. L. Fullmer.....	" " " " .....	2757	25 00
	R. Fischer .....	" " " " .....	2758	25 00
	F. O. Clements.....	" " " " .....	2759	25 00
	O. V. Brumley.....	" " " " .....	2760	20 00
	R. C. Purdy.....	" " " " .....	2761	20 00
	G. W. Rightmire.....	" " " " .....	2762	20 00
	E. H. Bailey.....	" " " " .....	2763	15 00
	F. F. D. Albery.....	" " " " .....	2764	15 00
	J. H. Collins.....	" " " " .....	2765	10 00
	D. A. Kohr.....	" " " " .....	2766	10 00
	R. E. McIntosh.....	" " " " .....	2767	10 00
	C. B. Guittard.....	" " " " .....	2768	50 00
	H. Gamper .....	" " " " .....	2769	7 50
	W. C. McCracken.....	" " " " .....	2770	150 00
	Geo. Rose .....	" " " " .....	2771	65 00
	Chas. Low .....	" " " " .....	2772	54 17
	W. Standley .....	" " " " .....	2773	50 00
	B. LeBay .....	" " " " .....	2774	50 00
	T. Boude .....	" " " " .....	2775	45 00
	W. H. Case.....	" " " " .....	2776	45 00
	H. Martz .....	" " " " .....	2777	45 00
	M. Peck .....	" " " " .....	2778	40 00
	F. K. Luke.....	" " " " .....	2779	40 00
	A. Chantler .....	" " " " .....	2780	40 00
	G. A. Goodspeed.....	" " " " .....	2781	40 00
	J. H. Brown.....	" " " " .....	2782	40 00
	D. D. Geren.....	" " " " .....	2783	40 00
	W. Whitestine .....	" " " " .....	2784	40 00
	H. Chantler .....	" " " " .....	2785	40 00

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899.				
March 25	G. C. Denny.....	Salary March, 1899, inst ...	2786	40 00
	M. N. Cook.....	" " .....	2787	40 00
	T. S. Edgington.....	" " .....	2788	40 00
	T. E. Osborn.....	" " .....	2789	40 00
	J. Kelley .....	" " .....	2790	35 00
	D. C. Huddleson.....	" " .....	2791	50 00
	W. C. Mills.....	" " .....	2792	25 00
	Mrs. E. R. Hubler....	" " .....	2793	20 00
	W. Townsel .....	" " .....	2794	25 00
	W. C. Wier.....	" " .....	2795	20 00
	J. C. Perry.....	" " .....	2796	12 50
	G. W. Elwell.....	" " .....	2797	40 00
	A. G. McCall.....	" " .....	2798	20 00
	J. Garretson .....	" " .....	2799	30 00
	J. Covan .....	" " .....	2800	65 00
	C. H. Woodruff.....	" " .....	2801	60 00
	Lily Weeks .....	Salary as maid .....	2802	5 00
	Lily Weeks .....	" " .....	2803	5 00
April 1	R. C. Purdy.....	Ceramics scholarship .....	2804	5 00
	F. Graham .....	Fees refunded ac. war.....	2805	5 00
March 31	F. H. Burr.....	" " .....	2806	6 00
April 1	R. M. Rownd, P. M....	Postage .....	2807	10 00
3	Lily Weeks .....	Salary as maid .....	2808	3 00
	C. F. Roy.....	Refund of fees ac. war.....	2809	7 00
6	T. J. Godfrey.....	Expenses as trustee .....	2810	13 05
5	W. I. Chamberlain....	" " .....	2811	19 05
8	F. R. West.....	Guide .....	2812	2 00
	F. C. McKinney.....	" .....	2813	4 62
	R. J. Seymour.....	" .....	2814	2 50
	F. J. Pavlicek.....	" .....	2815	3 62
	M. Snow .....	" .....	2816	4 00
	Lawrence Press Co....	Printing vouchers .....	2817	4 00
	Standard Oil Co.....	Oil .....	2818	42 21
	F. O. Schoedinger.....	Hdwe .....	2819	90
	Tracy Wells Co.....	Brooms, mops, etc.....	2820	16 55
	Lynas Bros .....	Candles .....	2821	1 00
	C. E. Miller.....	Drawing .....	2822	2 25
	Laning Ptg. Co.....	Subscription .....	2823	1 00
	Mrs. F. D. Meyers....	Laundry .....	2824	2 33
	Coll. Prests Asso of O.	Membership .....	2825	3 00
	Geo. T. Johnson.....	Toilet paper .....	2826	7 50
	Am. Dist. Tel. Co....	Signal box rent .....	2827	27 30
	W. E. Whitacre.....	Clerical work .....	2828	1 80
	Mich. Brush Co.....	Brushes .....	2829	11 05
	H. Powell .....	Clerical work .....	2830	6 45
	Mrs. E. R. Hubler....	" .....	2831	5 02
	Jeffrey Mfg. Co.....	Castings .....	2832	6 00
	Sherwood Mfg. Co....	Cutters .....	2833	3 00
	Pneumatic W. Chk Co	Repairs, etc.....	2834	3 10
	Miller Furn. Co.....	Furniture .....	2835	12 80
	Col. Brass Co.....	Urinal and tank .....	2836	15 00
	Col. Coal & Lime Co..	Cement .....	2837	3 25
	F. Charles .....	Draying .....	2838	50
	M. P. Streett.....	Masonry .....	2839	13 20
	The Lantern .....	Advertising .....	2840	60 00
	C. H. Evans & Co....	" .....	2841	5 00

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899.				
April 8	Agr. Student Pub. Co.	Advertising .....	2842	40 00
	Penn. Fuel Co.....	Coal .....	2843	37 88
	I. Ingram .....	Clerical work .....	2844	11 63
	R. C. Vance.....	" .....	2845	5 00
	B. F. Yates.....	" .....	2846	5 00
	P. P. Hammon.....	" .....	2847	2 00
	Spahr & Glenn.....	Cards .....	2848	2 25
	McAllister, M. & Co..	Desk .....	2849	25 00
	E. S. Werner.....	Magazine .....	2850	1 00
	Pub. Weekly .....	Index .....	2851	3 50
	E. S. Field.....	Library supplies .....	2852	19 90
	Burnham A. B. Store..	Class records .....	2853	15 00
	Library Bureau .....	Library supplies .....	2854	8 50
	W. F. Draper.....	Books .....	2855	10 00
	Am. Assn. for Adv. sci	Magazines .....	2856	2 50
	Am. Elec. Directory..	Directories .....	2857	5 00
	Boston Test Labr....	Periodicals .....	2858	6 00
	L. Williams .....	Attendance at library .....	2859	9 05
	Jas. Penn .....	Carting .....	2860	2 80
	Seraphim B. Book Co.	Binding .....	2861	84 55
	C. F. Milligan.....	Books .....	2862	40 00
	Kauffman Lattimer Co.	Chemicals and apparatus ..	2863	87 25
	Watertown Therm. Co.	Chem. thermometer .....	2864	4 50
	Baker & A. Chem. Co.	Chemicals .....	2865	2 45
	Mallmekrodt Ch. Wks.	Chem. and apparatus.....	2866	27 81
	E. Greiner .....	Apparatus .....	2867	10 75
	J. Carbutt .....	Photo supplies .....	2868	127 61
	Eimer & Amend.....	Apparatus .....	2869	1 35
	Richards & Co.....	" .....	2870	31 23
	F. C. Long .....	Work in museum .....	2871	3 00
	F. S. Johnston.....	Clerical work .....	2872	14 10
	O. Erf .....	Lab. work .....	2873	20 00
	E. B. Meyrowitz.....	Microscope slides .....	2874	4 59
	E. M. Van Harlingen.	Cash advanced .....	2875	22 55
	J. McAllister .....	Labor .....	2876	24 00
	Wm. Cannan .....	" .....	2877	12 13
	Col. Gas Co.....	Gas and coke .....	2878	175 78
	J. H. Nold .....	Work .....	2879	4 75
	Kelton & Converse....	Lumber .....	2880	3 60
	Keuffel & Esser.....	Drawing instruments .....	2881	80 89
	B. D. Potts .....	Hdwe .....	2882	6 79
	F. & R. Lazarus & Co.	Boots .....	2883	3 75
	Col. E. Elec. Lt. Co...	Elect. work .....	2884	2 00
	Payne McD. Hdw. Co.	Hdwe .....	2885	12 31
	Nitschke Bros .....	Stationery and printing ....	2886	7 50
	Am. Grocery Co.....	Groceries .....	2887	9 72
	C. H. Davis.....	Sewing machine .....	2888	38 50
	A. Dobbie .....	Dry goods .....	2889	11 71
	Bausch & L. Opt. Co..	Lens, shutter, etc.....	2890	40 57
	E. Doddington & Co..	Lumber .....	2891	47 78
	R. M. Rownd, P. M...	Postage .....	2892	31 00
	C. H. Woodruff.....	Cash advanced .....	2893	1 25
	S. T. Hallsman.....	Painting .....	2894	12 00
	J. S. Abbott & Co....	Hardware .....	2895	14 78
	Kimball & Mathews...	Photo supplies .....	2896	32 60
	Burross Bros. Co.....	Books .....	2897	188 02

## STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899.				
April 8	C. E. Thorne.....	Bees .....	2898	10 00
	S. R. Moore.....	B. B. bushes .....	2899	1 50
	W. Erdman .....	Labor .....	2900	16 63
	G. M. Berndroth.....	" .....	2901	2 00
	A. H. Lynn.....	" .....	2902	3 05
	B. B. Wells.....	" .....	2903	6 38
	Morse T. Dr. & M. Co.	Taps .....	2904	1 09
	W. F. Hunter.....	Cash advanced .....	2905	3 50
	Cap. City Mch. Wks..	Hdwe .....	2906	20 80
	Col. Mill & M. S. Co..	Valves .....	2907	3 68
	Col. Supply Co.....	Hdwe .....	2908	25 19
	Blackwood, G. & Co...	" .....	2909	22 70
	J. S. Bushnell.....	Reducing wheel .....	2910	11 50
	Shilling Fdy. Co.....	Castings .....	2911	76
	Kilbourne J. Mfg. Co..	Lumber .....	2912	3 85
	Brown & S. Mfg. Co..	Gear model .....	2913	50 00
	F. J. Hale.....	Extra services .....	2914	4 40
	E. H. Bailey.....	" .....	2915	3 15
	H. Judd .....	" .....	2916	1 75
	E. G. Bailey.....	Helping in laboratory .....	2917	4 44
	H. R. Worthington...	Ammonia meter .....	2918	21 25
	Duval Met. Pkg. Co...	Packing .....	2919	4 84
	C. M. Giddings.....	Dynamometer .....	2920	45 00
	Lumkenheimer Co.....	Regrinding valves .....	2921	14 92
	Crane Co .....	Valve and bushing.....	2922	4 66
	H. J. Green.....	Scientific instruments .....	2923	55 00
	Weston Elec. Inst. Co.	Elect. " .....	2924	261 00
	E. G. Smith.....	Scientific instruments .....	2925	27 46
	J. G. Biddle.....	Thompson lamp .....	2926	27 00
	Queen & Co.....	Elect. cell .....	2927	27 50
	A. Spittal.....	Labor .....	2928	68 50
	Tallmadge Hdw. Co...	Hdwe .....	2929	20 03
	McClelland & Co.....	Stationery .....	2930	49 75
	J. McL. Smith.....	Expenses trustee .....	2931	11 25
	Braun Sons & Co.....	Surg. instr. .....	2932	2 70
	Franklin Toil. Sup. Co.	Laundry .....	2933	41 53
	L. S. Wells.....	Books .....	2934	1 62
	Harper & Bros.....	Book .....	2935	65
	Perry Smythe .....	Picture frames .....	2936	1 55
	Terry Eng. Co.....	Etchings .....	2937	5 52
	Heath & Co.....	Books .....	2938	7 20
	Schoedinger, F. & Co..	Hdwe .....	2939	36 16
	R. M. Rownd, P. M...	Postage .....	2940	10 00
	Champlin, Ptg. Co....	Printing .....	2941	24 00
	W. Morelan .....	Carpentry .....	2942	2 60
	Barber Mfg. Co.....	Changing refrigerator .....	2943	64 24
	Murray C. Coal Co....	Coal .....	2944	953 79
	Engelke & Bigelow....	Freight and hauling .....	2945	26 26
	C. P. Harris.....	Oratorical contest expenses.	2946	25 00
10	Lily Weeks .....	Salary as maid .....	2947	5 00
	R. M. Rownd, P. M...	Postage deposit .....	2948	25 00
12	Col. Water Works....	Water rents and charges...	2949	533 83
	J. T. Mack.....	Expenses trustee .....	2950	24 70
	H. Gamper .....	Services as janitor .....	2951	3 75
14	W. I. Chamberlain....	Expenses trustee .....	2952	13 85
	D. K. Watson.....	Exp. Morrill mem. address.	2953	40 00



## STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899.				
April 15	W. E. Henry.....	Bagging and hauling books.	2954	4 80
	West. U. Tel. Co.....	Teleg. service .....	2955	6 38
	T. J. Burrill.....	Expenses Morrill mem. ad.	2956	21 60
	F. W. Prentiss.....	B-E. for F. L. Dames....	2957	11 28
	F. W. Prentiss.....	B-E. for C. A. Kahlbaum..	2958	8 77
	F. C. Clark.....	Cash adv. for postage .....	2959	1 19
	H. Graham.....	Refund fees ac. war.....	2960	4 50
17	Lily Weeks.....	Salary as maid .....	2961	5 00
	Mrs. M. J. Kellenberger	Serv. dept. dom. sci.....	2962	20 00
22	F. C. Clark.....	Cash advanced .....	2963	3 75
	F. C. Caldwell.....	Supt. elect. plant.....	2964	100 00
24	Lily Weeks.....	Salary as maid .....	2965	5 00
29	J. H. Canfield.....	Salary April, 1899, inst....	2966	500 00
	Alexis Cope .....	" " .....	2967	187 50
	C. E. Barnet.....	" " .....	2968	65 00
	F. W. Prentiss.....	" " .....	2969	33 33
	Jean Blackford .....	" " .....	2970	54 17
	E. D. Cockins.....	" " .....	2971	58 33
	T. F. Hunt.....	" " .....	2972	250 00
	W. A. Kellerman.....	" " .....	2973	225 00
	W. McPherson .....	" " .....	2974	225 00
	C. N. Brown.....	" " .....	2975	225 00
	A. C. Barrows.....	" " .....	2976	225 00
	Edw. Orton, Sr.....	" " .....	2977	225 00
	E. A. Eggers.....	" " .....	2978	225 00
	J. R. Smith.....	" " .....	2979	225 00
	H. A. Weber.....	" " .....	2980	225 00
	W. R. Lazenby.....	" " .....	2981	225 00
	S. C. Derby.....	" " .....	2982	225 00
	A. M. Bleile.....	" " .....	2983	225 00
	R. D. Bohannon.....	" " .....	2984	225 00
	W. T. Magruder.....	" " .....	2985	225 00
	J. P. Gordy.....	" " .....	2986	225 00
	W. H. Scott.....	" " .....	2987	225 00
	B. F. Thomas.....	" " .....	2988	225 00
	J. V. Denney.....	" " .....	2989	225 00
	B. L. Bowen.....	" " .....	2990	225 00
	H. Osborn.....	" " .....	2991	225 00
	N. W. Lord.....	" " .....	2992	200 00
	F. A. Ray.....	" " .....	2993	200 00
	G. B. Kauffman.....	" " .....	2994	200 00
	Edw. Orton, Jr.....	" " .....	2995	180 00
	J. N. Bradford.....	" " .....	2996	180 00
	G. W. McCoard.....	" " .....	2997	160 00
	C. P. Linhart.....	" " .....	2998	160 00
	H. C. Lord.....	" " .....	2999	160 00
	E. A. Hitchcock.....	" " .....	3000	150 00
	D. S. White.....	" " .....	3001	150 00
	W. D. Gibbs.....	" " .....	3002	140 00
	P. G. Bowman.....	" " .....	3003	140 00
	F. C. Caldwell.....	" " .....	3004	140 00
	F. C. Clark.....	" " .....	3005	135 00
	W. H. Page.....	" " .....	3006	135 00
	S. A. Norton.....	" " .....	3007	120 00
	R. I. Fulton.....	" " .....	3008	120 00
	W. H. Siebert.....	" " .....	3009	120 00

Date.	To whom paid.	For what purpose.	No.	Amount.
1899.				
April 29	O. B. Jones.....	Salary April, 1899, inst....	3010	120 00
	J. E. Boyd.....	" " " " " " " "	3011	120 00
	E. B. Kinkead.....	" " " " " " " "	3012	110 00
	J. R. Taylor.....	" " " " " " " "	3013	110 00
	C. E. Sherman.....	" " " " " " " "	3015	100 00
	T. E. French.....	" " " " " " " "	3015	100 00
	C. W. Mesloh.....	" " " " " " " "	3016	100 00
	C. L. Arnold.....	" " " " " " " "	3017	100 00
	K. D. Swartzel.....	" " " " " " " "	3018	100 00
	A. W. Hodgman.....	" " " " " " " "	3019	100 00
	W. A. Knight.....	" " " " " " " "	3020	95 00
	C. W. Weick.....	" " " " " " " "	3021	95 00
	F. W. Smyser.....	" " " " " " " "	3022	80 00
	J. H. Schaffner.....	" " " " " " " "	3023	90 00
	C. W. Foulk.....	" " " " " " " "	3024	90 00
	J. A. Bownocker.....	" " " " " " " "	3025	90 00
	C. A. Dye.....	" " " " " " " "	3026	90 00
	W. L. Graves.....	" " " " " " " "	3027	90 00
	J. S. Hine.....	" " " " " " " "	3028	85 00
	F. L. Landacre.....	" " " " " " " "	3029	85 00
	A. E. Vinson.....	" " " " " " " "	3030	80 00
	E. M. Van Harlingen.	" " " " " " " "	3031	80 00
	M. P. Brush.....	" " " " " " " "	3032	80 00
	C. Wissler.....	" " " " " " " "	3033	80 00
	C. Souther.....	" " " " " " " "	3034	80 00
	S. M. Elliott.....	" " " " " " " "	3035	75 00
	E. O. Randall.....	" " " " " " " "	3036	70 00
	D. F. Pugh.....	" " " " " " " "	3037	70 00
	E. E. Harrold.....	" " " " " " " "	3038	70 00
	N. H. Brown.....	" " " " " " " "	3039	70 00
	E. E. Sommermeier....	" " " " " " " "	3040	65 00
	F. Ruhlen.....	" " " " " " " "	3041	60 00
	T. K. Lewis.....	" " " " " " " "	3042	60 00
	A. F. Hall.....	" " " " " " " "	3043	60 00
	W. F. Lavery.....	" " " " " " " "	3044	60 00
	C. B. Frederick.....	" " " " " " " "	3045	60 00
	H. Townshend.....	" " " " " " " "	3046	55 00
	J. F. Cunningham.....	" " " " " " " "	3047	54 00
	G. S. Kellicott.....	" " " " " " " "	3048	50 00
	M. D. Jeffrey.....	" " " " " " " "	3049	50 00
	A. V. Bleininger.....	" " " " " " " "	3050	40 00
	L. Allen.....	" " " " " " " "	3051	40 00
	M. Dresbach.....	" " " " " " " "	3052	30 00
	F. A. Fish.....	" " " " " " " "	3053	30 00
	A. H. McIntire.....	" " " " " " " "	3054	30 00
	E. L. Ball.....	" " " " " " " "	3055	30 00
	S. E. Rasor.....	" " " " " " " "	3056	30 00
	H. Judd.....	" " " " " " " "	3057	30 00
	F. J. Hale.....	" " " " " " " "	3058	30 00
	J. B. Parker.....	" " " " " " " "	3059	30 00
	B. F. Maag.....	" " " " " " " "	3060	30 00
	J. H. Vosskuehler.....	" " " " " " " "	3061	30 00
	E. L. Fullmer.....	" " " " " " " "	3062	25 00
	R. Fischer.....	" " " " " " " "	3063	25 00
	F. O. Clements.....	" " " " " " " "	3064	25 00
	O. V. Brumlev.....	" " " " " " " "	3065	20 00

## STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899.				
April 29	R. C. Purdy.....	Salary April, 1899, inst....	3066	20 00
	G. W. Rightmire.....	" " " " " " " "	3067	20 00
	E. H. Bailey.....	" " " " " " " "	3068	15 00
	F. F. D. Alberty.....	" " " " " " " "	3069	15 00
	J. H. Collins.....	" " " " " " " "	3070	10 00
	D. A. Kohr.....	" " " " " " " "	3071	10 00
	R. E. McIntosh.....	" " " " " " " "	3072	10 00
	C. B. Guittard.....	" " " " " " " "	3073	50 00
	H. Gamper.....	" " " " " " " "	3074	7 50
	W. C. McCracken.....	" " " " " " " "	3075	150 00
	Geo. Rose.....	" " " " " " " "	3076	65 00
	Chas. Low.....	" " " " " " " "	3077	54 17
	W. Standley.....	" " " " " " " "	3078	50 00
	B. LeBay.....	" " " " " " " "	3079	50 00
	T. Boude.....	" " " " " " " "	3080	45 00
	W. H. Case.....	" " " " " " " "	3081	45 00
	H. Martz.....	" " " " " " " "	3082	25 00
	M. Peck.....	" " " " " " " "	3083	40 00
	F. K. Luke.....	" " " " " " " "	3084	40 00
	A. Chantler.....	" " " " " " " "	3085	40 00
	G. A. Goodspeed.....	" " " " " " " "	3086	40 00
	J. H. Brown.....	" " " " " " " "	3087	40 00
	D. D. Geren.....	" " " " " " " "	3088	40 00
	W. Whitestone.....	" " " " " " " "	3089	40 00
	H. Chantler.....	" " " " " " " "	3090	40 00
	G. C. Denny.....	" " " " " " " "	3091	40 00
	M. N. Cook.....	" " " " " " " "	3092	40 00
	T. S. Edgington.....	" " " " " " " "	3093	40 00
	T. E. Osborn.....	" " " " " " " "	3094	40 00
	J. Kelley.....	" " " " " " " "	3095	35 00
	D. C. Huddleson.....	" " " " " " " "	3096	50 00
	W. C. Mills.....	" " " " " " " "	3097	25 00
	Mrs. E. R. Hubler....	" " " " " " " "	3098	20 00
	W. Townsel.....	" " " " " " " "	3099	25 00
	W. C. Wier.....	" " " " " " " "	3100	20 00
	J. C. Perry.....	" " " " " " " "	3101	12 50
	G. W. Elwell.....	" " " " " " " "	3102	40 00
	A. G. McCall.....	" " " " " " " "	3103	20 00
	J. Covan.....	" " " " " " " "	3104	65 00
	W. F. Hunter.....	" " " " " " " "	3105	250 00
	G. W. Knight.....	" " " " " " " "	3106	250 00
	C. H. Woodruff.....	Carpentry.....	3107	60 00
May 1	Joe Garretson.....	Salary as plumber.....	3108	33 00
	Lily Weeks.....	Services as maid.....	3109	5 00
2	T. J. Godfrey.....	Expenses trustee.....	3110	7 65
	L. B. Wing.....	" " " " " " " "	3111	10 00
6	F. J. Pavlicek.....	Salary as guide.....	3112	4 12
	R. J. Seymour.....	Guide and messenger.....	3113	5 12
	F. R. West.....	" " " " " " " "	3114	1 12
	F. C. McKinney.....	" " " " " " " "	3115	4 25
	H. Gamper.....	Labor.....	3116	5 58
	J. H. Nold.....	" " " " " " " "	3117	1 50
	K. Nurian.....	" " " " " " " "	3118	1 50
	M. J. Snow.....	Messenger.....	3119	6 25
	Am. Jersey Cattle Club	Books.....	3120	1 00
	Publishers' Weekly...	" " " " " " " "	3121	1 58

## STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899. May 6	Library Bureau .....	Magazine .....	3122	1 00
	E. Doddington & Co....	Lumber .....	3123	1 00
	Colliery Eng. Co.....	Magazine .....	3124	7 50
	G. M. Basford.....	" .....	3125	3 00
	Randall & Co.....	" .....	3126	1 50
	J. J. Flather Treas....	Books .....	3127	12 80
	G. E. Stechert.....	" .....	3128	192 97
	Univ. of Chic. Press...	Bot. gazette .....	3129	1 20
	Mrs. M. J. Kellenberger	Serv. dept. dom sci....	3130	10 00
	Writer Pub. Co.....	"The Writer" .....	3131	1 00
	Boston Book Co.....	Books .....	3132	167 75
	M. A. B. Townshend..	" .....	3133	44 00
	J. Penn .....	Cartage .....	3134	4 10
	Spahr & Glenn.....	Printing .....	3135	5 00
	C. F. Sigrist.....	Labor .....	3136	1 75
	L. T. Williams.....	" in library .....	3137	10 25
	Am. Assn. for Adv. Sci.	Books .....	3138	3 38
	Am. Misc. Soc.....	" .....	3139	22 00
	Burrows Bros. Co....	" .....	3140	295 70
	Am. Hist. Assn.....	" .....	3141	25 00
	Penn. Fuel Co.....	Coal .....	3142	18 04
	J. McAllister .....	Labor .....	3143	17 50
	W. Cannan .....	" .....	3144	8 75
	Col. Gas Co.....	Coke .....	3145	7 68
	Buffalo Dent. Mfg. Co.	Furnace .....	3146	8 50
	Blackw'd, Green & Co.	Iron tank and basins .....	3147	12 30
	Hammond & Co.....	Lab. supplies .....	3148	24 71
	W. H. Haskins.....	Advertising .....	3149	11 25
	H. Braun Sons & Co..	App. and lab. supplies....	3150	3 82
	Nitschke Bros .....	Ink .....	3151	50
	C. U. Tel. Co.....	Telephones .....	3152	96 95
	Col. Transfer Co.....	Drayage .....	3153	1 00
	C. O. Oil Co.....	Oil .....	3154	35 11
	Orvis & Marshall.....	Office supplies .....	3155	2 90
	Ind. Alkali Wks.....	Savogran .....	3156	18 20
	G. T. Johnson.....	Toilet paper .....	3157	7 50
	Mrs. E. R. Hubler....	Clerical work .....	3158	11 35
	Hann & Adair.....	Printing .....	3159	6 25
	Keuffel & Esser.....	Maduro paper .....	3160	3 20
	Macmillan & Co.....	Books .....	3161	8 71
	R. C. Osborn.....	Labor .....	3162	10 20
	Schoedinger, H. & Co..	Hdwe .....	3163	5 93
	C. Zinn .....	Brass castings .....	3164	6 25
	Jeffrey Mfg. Co.....	Varnish .....	3165	1 30
	H. W. Johns Mfg. Co.	Twine .....	3166	75
	M. C. Hunter.....	Labor .....	3167	5 85
	Erner & Hopkins....	Elect. supplies .....	3168	35 76
	W. R. Lazenby.....	Cash advanced, trees .....	3169	2 75
	C. H. Fleming.....	Labor .....	3170	12 00
	H. L. Belden.....	" .....	3171	7 75
	A. F. Wilcox.....	" .....	3172	7 65
	McClelland & Co.....	Map .....	3173	4 80
	L. W. Curtis.....	" .....	3174	5 15
	Drawing Supply Store.	Supplies .....	3175	1 52
	Frankenberg Bros ..	Trays .....	3176	5 60
	Albaugh N. O. Co....	Trees .....	3177	54 50



## STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899.				
May 6	Cushman Glad. Co....	Gladioli .....	3178	10 00
	T. W. Whiteman.....	Plowing .....	3179	9 00
	M. Crawford .....	Plants .....	3180	18 00
	W. Roberts .....	Labor .....	3181	18 90
	Ohio Agr. Exp. Sta....	Potatoes .....	3182	35 20
	J. S. Teter.....	Labor .....	3183	17 50
	R. W. Funk.....	" .....	3184	27 82
	W. H. Anderson & Co.	Books .....	3185	212 50
	F. H. Tibbitts.....	Printing .....	3186	1 25
	E. Thompson & Co....	Books .....	3187	6 00
	Col. Supply Co.....	Hdwe .....	3188	26 88
	Cap. City Mch. Wks..	" .....	3189	80
	Crosby S. Gag. & V. Co	Cocks .....	3190	10 50
	J. G. Pulling & Co....	Valves .....	3191	2 00
	E. G. Bailey.....	Extra services .....	3192	5 63
	C. W. Weick.....	Cash adv. and tools.....	3193	6 00
	B. M. Green.....	Clerical work .....	3194	1 84
	O. S. Acad. of Sci....	Printing "Odonata".....	3195	30 00
	Ohio Conf. Minutes...	Advertising .....	3196	10 00
	Laning Ptg. Co.....	Printing .....	3197	23 00
	J. V. Denney.....	Exp. visit high school....	3198	19 55
	S. C. Derby.....	" .....	3199	15 50
	Champlin Ptg. Co....	Printing .....	3200	42 80
	C. P. Linhart.....	Cash adv. for trial set....	3201	3 50
	F. F. Bonnet.....	Clocks .....	3202	8 50
	A. G. Spaulding & Bros	Lunger .....	3203	2 10
	Franklin Toil. Sup. Co.	Laundry .....	3204	26 85
	South Bend Iron Wks.	Plow .....	3205	9 88
	Wellington Box Co...	Boxes .....	3206	3 41
	Diamond Crystal S. Co.	Salt .....	3207	2 25
	J. K. Farver.....	Repairs .....	3208	2 00
	W. H. Reid.....	Tools .....	3209	1 50
	F. B. Fargo & Co....	Bottles .....	3210	2 62
	F. S. Johnston.....	Clerical work .....	3211	15 45
	Glucose Sug. Ref. Co..	Meal .....	3212	29 25
	Hager & Graves.....	Groceries .....	3213	14 43
	M. C. Payne.....	Books .....	3214	13 25
	Alpheia Dairy Co....	Milk .....	3215	6 49
	J. S. Abbott & Co....	Hardware .....	3216	2 88
	Engelke & Bigelow...	Freight and cartage..	3217	55 17
	Murray City Coal Co..	Coal .....	3218	590 00
	Tallmadge Hdw. Co...	Hdwe .....	3219	13 62
	Borger Bros. & Co....	Repairs .....	3220	1 85
	Burgess Sold. Furn. Co	" .....	3221	75
	Col. Brass Co.....	Urinal, copper, etc.....	3222	36 35
	W. Erdman .....	Labor .....	3223	13 30
	G. M. Berndroth.....	" .....	3224	14 40
	B. B. Wells.....	" .....	3225	10 05
	Kimball & Mathews...	Photo supplies .....	3226	3 95
	P. P. Hammon.....	Freight and cartage .....	3227	55 17
	H. S. Adams.....	" .....	3228	2 56
	A. Spittal .....	Labor .....	3229	55 50
	H. Cole .....	Lenses .....	3230	14 90
	J. G. Biddle.....	Scientific instruments .....	3231	173 25
	West. Elec. Co.....	Elect. supplies .....	3232	17 82
	Eimer & Amend.....	Machine parts .....	3233	40 02

## STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount
1899.				
May 6	L. Fink .....	Moulding .....	3234	1 44
	Schroth & Potter.....	Lumber .....	3235	9 15
	C. H. Woodruff.....	Cash adv. for hdwe.....	3236	75
	J. M. Barringer.....	Lab. work .....	3237	1 95
	W. Morelan .....	Carpentry .....	3238	3 80
	Chic. Lab. Sup. & S. Co	Elec. supplies .....	3239	98 05
	Baker & Co.....	Plat. ware .....	3240	66 65
	Kauffman Lattimer Co.	Chem. and supplies .....	3241	101 86
	Richards & Co.....	Chem. app.....	3242	27 75
	Chicago B. P. Pap. Co.	B. P. paper .....	3243	2 64
	Am. Aristotype Co....	Mdse .....	3244	7 19
	H. Goldsmith .....	Musical supplies .....	3245	5 60
	H. R. Marietta.....	" .....	3246	50
	Allyn & Bacon.....	Books .....	3247	10 50
	W. C. Mills.....	Cash adv. for postage .....	3248	84
	Col. M. & M. S. Co...	Mch. supplies .....	3249	25 60
	Kelton & Converse....	Lumber .....	3250	99 56
	B. D. Potts.....	Hdwe .....	3251	8 64
	Col. Gas Co.....	Gas .....	3252	126 83
8	F. C. Clark.....	Cash adv. for files .....	3253	2 75
	Lily Weeks .....	Maid .....	3254	5 00
10	W. I. Chamberlain....	Expenses trustee .....	3255	12 43
	J. McL. Smith.....	" .....	3256	5 70
	R. M. Rownd, P. M....	Stamped envelopes .....	3257	21 40
12	Crosby Stm. G. & V. Co	Apparatus .....	3258	61 74
	G. Bruder .....	Salary as bandmaster.....	3259	94 00
15	T. E. Osborn.....	" to date .....	3260	20 00
	Lily Weeks .....	Maid .....	3261	5 00
	Lily Weeks .....	Serv. as janitress .....	3262	17 15
	Harrison, Olds & Co..	Legal serv. in Page will case	3263	1,000 00
22	Lily Weeks .....	Serv. dept. ph. train.....	3264	7 50
23	Mrs. M. J. Kellenberger	" dom. sci.....	3265	15 00
25	T. J. Godfrey.....	Exp. as trustee .....	3266	19 75
27	L. B. Wing.....	" .....	3267	12 00
	J. H. Canfield.....	Salary May, 1899, inst.....	3268	500 00
	Alexis Cope .....	" .....	3269	187 50
	C. E. Barnet.....	" .....	3270	65 00
	F. W. Prentiss.....	" .....	3271	33 33
	Jean Blackford .....	" .....	3272	54 17
	E. D. Cockins.....	" .....	3273	58 33
	T. F. Hunt.....	" .....	3274	250 00
	W. F. Hunter.....	" .....	3275	250 00
	G. W. Knight.....	" .....	3276	250 00
	W. A. Kellerman.....	" .....	3277	225 00
	W. McPherson .....	" .....	3278	225 00
	C. N. Brown.....	" .....	3279	225 00
	A. C. Barrows.....	" .....	3280	225 00
	Edw. Orton .....	" .....	3281	225 00
	E. A. Eggers.....	Salary May and June, insts.	3282	450 00
	J. R. Smith.....	Salary May, 1899, inst.....	3283	225 00
	H. A. Weber.....	" .....	3284	225 00
	W. R. Lazenby.....	" .....	3285	225 00
	S. C. Derby.....	" .....	3286	225 00
	A. M. Bleile.....	" .....	3287	225 00
	W. T. Magruder.....	" .....	3288	225 00
	R. D. Bohannan.....	" .....	3289	225 00

## STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899.				
May 27	J. P. Gordy.....	Salary May, 1899, inst.....	3290	225 00
	W. H. Scott.....	" " ".....	3291	225 00
	B. F. Thomas.....	" " ".....	3292	225 00
	J. V. Denney.....	" " ".....	3293	225 00
	B. L. Bowen.....	Salary May and June, 1899,		
		insts.....	3294	450 00
	H. Osborn.....	Salary May, 1899, inst.....	3295	225 00
	N. W. Lord.....	" " ".....	3296	200 00
	F. A. Ray.....	" " ".....	3297	200 00
	G. B. Kauffman.....	" " ".....	3298	200 00
	F. E. Sanborn.....	" " ".....	3299	45 00
	Edw. Orton, Jr.....	" " ".....	3300	180 00
	J. N. Bradford.....	" " ".....	3301	180 00
	G. W. McCoard.....	" " ".....	3302	160 00
	C. P. Linhart.....	" " ".....	3303	160 00
	H. C. Lord.....	" " ".....	3304	160 00
	E. A. Hitchcock.....	" " ".....	3305	150 00
	D. S. White.....	" " ".....	3306	150 00
	W. D. Gibbs.....	" " ".....	3307	140 00
	P. G. Bowman.....	" " ".....	3308	140 00
	F. C. Caldwell.....	" " ".....	3309	140 00
	F. C. Clark.....	" " ".....	3310	135 00
	W. H. Page.....	" " ".....	3311	135 00
	S. A. Norton.....	" " ".....	3312	120 00
	R. I. Fulton.....	" " ".....	3313	120 00
	W. H. Siebert.....	" " ".....	3314	120 00
	O. B. Jones.....	" " ".....	3315	120 00
	J. E. Boyd.....	" " ".....	3316	120 00
	E. B. Kinkead.....	" " ".....	3317	110 00
	J. R. Taylor.....	" " ".....	3318	110 00
	C. E. Sherman.....	" " ".....	3319	100 00
	T. E. French.....	" " ".....	3320	100 00
	C. W. Mesloh.....	" " ".....	3321	100 00
	C. L. Arnold.....	" " ".....	3322	100 00
	K. D. Swartzel.....	" " ".....	3323	100 00
	A. W. Hodgman.....	" " ".....	3324	100 00
	W. A. Knight.....	" " ".....	3325	95 00
	C. W. Weick.....	" " ".....	3326	95 00
	F. W. Smyser.....	" " ".....	3327	80 00
	J. H. Schaffner.....	" " ".....	3328	90 00
	C. W. Foulk.....	" " ".....	3329	90 00
	J. A. Bownocker.....	" " ".....	3330	90 00
	C. A. Dye.....	" " ".....	3331	90 00
	W. L. Graves.....	" " ".....	3332	90 00
	J. S. Hine.....	" " ".....	3333	85 00
	F. L. Landacre.....	" " ".....	3334	85 00
	A. E. Vinson.....	" " ".....	3335	80 00
	E. M. Van Harlingen..	" " ".....	3336	80 00
	M. P. Brush.....	" " ".....	3337	80 00
	C. Wissler.....	" " ".....	3338	80 00
	C. Souther.....	" " ".....	3339	80 00
	S. M. Elliott.....	" " ".....	3340	75 00
	E. O. Randall.....	" " ".....	3341	70 00
	D. F. Pugh.....	" " ".....	3342	70 00
	E. E. Harrold.....	" " ".....	3343	70 00
	N. H. Brown.....	" " ".....	3344	70 00

## STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899. May 27	E. E. Somermeier.....	Salary May, 1899, inst.....	3345	65 00
	F. Ruhlen .....	" " .....	3346	60 00
	T. K. Lewis.....	" " .....	3347	60 00
	A. F. Hall.....	" " .....	3348	60 00
	W. F. Lavery.....	" " .....	3349	60 00
	C. B. Frederick.....	" " .....	3350	60 00
	H. Townshend .....	" " .....	3351	55 00
	J. F. Cunningham.....	" " .....	3352	54 00
	G. S. Kellicott.....	" " .....	3353	50 00
	M. D. Jeffrey.....	" " .....	3354	50 00
	A. V. Bleiningher.....	" " .....	3355	40 00
	L. Allen .....	" " .....	3356	40 00
	M. Dresbach .....	" " .....	3357	30 00
	F. A. Fish.....	" " .....	3358	30 00
	A. H. McIntire.....	" " .....	3359	30 00
	E. L. Ball.....	" " .....	3360	30 00
	S. E. Rasor.....	" " .....	3361	30 00
	H. Judd .....	" " .....	3362	30 00
	F. J. Hale.....	" " .....	3363	30 00
	J. B. Parker.....	" " .....	3364	30 00
	B. F. Maag.....	" " .....	3365	30 00
	J. H. Vosskuehler.....	" " .....	3366	30 00
	E. L. Fullmer.....	" " .....	3367	25 00
	R. Fischer .....	" " .....	3368	25 00
	F. O. Clements.....	" " .....	3369	25 00
	O. V. Brumley.....	" " .....	3370	20 00
	R. C. Purdy.....	" " .....	3371	20 00
	G. W. Rightmire.....	" " .....	3372	20 00
	E. H. Bailey.....	" " .....	3373	15 00
	F. F. D. Albergy.....	" " .....	3374	15 00
	J. H. Collins.....	" " .....	3375	10 00
	D. A. Kohr.....	" " .....	3376	10 00
	R. E. McIntosh.....	" " .....	3377	10 00
	C. B. Guittard.....	" " .....	3378	50 00
	H. Gamper .....	" " .....	3379	7 50
	W. C. McCracken.....	" " .....	3380	150 00
	Geo. Rose .....	" " .....	3381	65 00
	Chas. Low .....	" " .....	3382	54 17
	W. Standley .....	" " .....	3383	50 00
	B. LeBay .....	" " .....	3384	50 00
	T. Boudé .....	" " .....	3385	45 00
	W. H. Case.....	" " .....	3386	45 00
	D. Clifford .....	" " .....	3387	45 00
	M. Peck .....	" " .....	3388	40 00
	F. K. Luke.....	" " .....	3389	40 00
	A. Chantler .....	" " .....	3390	40 00
	G. A. Goodspeed.....	" " .....	3391	40 00
	J. H. Brown.....	" " .....	3392	40 00
	D. D. Geren.....	" " .....	3393	40 00
	W. Whitestone .....	" " .....	3394	40 00
	H. Chantler .....	" " .....	2295	40 00
	G. C. Denny.....	" " .....	3396	40 00
	M. V. Cook.....	" " .....	3397	40 00
	T. S. Edgington.....	" " .....	3398	40 00
	J. Kelley .....	" " .....	3399	35 00
	W. C. Mills.....	" " .....	3400	25 00



## STATEMENT II—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899.				
May 27	Mrs. E. R. Hubler....	Salary May, 1899, inst .....	3401	20 00
	W. Townsel .....	" " .....	3402	25 00
	W. C. Wier .....	" " .....	3403	20 00
	G. W. Elwell .....	" " .....	3404	40 00
	A. G. McCall .....	" " .....	3405	20 00
	J. Covan .....	" " .....	3406	65 00
	C. H. Woodruff .....	" " .....	3407	60 00
25	F. W. Prentiss .....	Int. on \$70,000 6 per cent bonds .....	3408	2,100 00
	F. W. Prentiss .....	Int. on \$160,000 4½ per cent bonds .....	3409	3,600 00
	F. W. Prentiss .....	Int. on \$150,000 bonds .....	3410	3,375 00
	Hager & Graves .....	Groceries .....	3411	14 09
	Alphea Dairy Co. ....	Milk .....	3412	69
	Schoedinger, F. & Co. .	Ice cream freezer .....	3413	5 81
	Busy Bee Candy K. Co	Nuts .....	3414	55
	L. A. Vance .....	Mdse .....	3415	85
	C. P. Souther .....	Cash advanced .....	3416	1 67
	Crosby St. G. & V. Co.	Apparatus .....	3417	60 52
	Erie Gas. Engine Co..	Ft. on engine .....	3418	11 88
	Hammond & S. ....	Specimens .....	3419	7 75
	McDonald Bros .....	Stove grate .....	3420	49
	B. S. Stephenson .....	Clerical work .....	3421	5 00
	W. Morelan .....	Carpentry .....	3422	1 00
	E. Doddington & Co..	Lumber .....	3423	19 55
	G. E. Stechert .....	Books .....	3424	89 69
	J. H. Nold .....	Labor .....	3425	3 30
	Tallmadge Hdw. Co..	Hdwe .....	3426	4 27
	Col. M. & M. G. Co..	" .....	3427	9 04
	Hart & Crouse .....	Grate bars .....	3428	3 62
	Col. Brass Co. ....	Float .....	3429	1 25
	Kelton & Converse ..	Lumber .....	3430	1 27
	Champlin Ptg. Co. ....	Printing .....	3431	72 50
	Stumpf & Steurer ..	Advertising .....	3432	7 00
27	Laning Ptg. Co. ....	Printing .....	3433	150 00
	W. B. Dana .....	Advertising .....	3434	10 00
	J. E. Baldrige .....	" .....	3435	9 00
	G. W. Knight .....	Expenses visit schools ..	3436	13 75
	J. R. Smith .....	" " .....	3437	23 10
	W. H. Scott .....	" " .....	3438	18 11
	A. C. Barrows .....	" " .....	3439	12 25
	H. Cole Co. ....	Mirror .....	3440	1 00
	H. Boker & Co. ....	Resistance wire .....	3441	3 36
	Queen & Co. ....	Scientific instruments ..	3442	142 16
	Am. Hard. Rubber Co.	Rubber .....	3443	14 37
	A. Spittal .....	Labor .....	3444	27 00
	G. M. Parsons .....	Refund of fees .....	3445	5 00
	B. D. Potts .....	Hardware .....	3446	12 92
	Blackw'd, Green & Co.	" .....	3447	5 40
	C. P. Linville .....	Labor .....	3448	1 35
	Wm. McPherson .....	Cash advanced .....	3449	6 22
	Col. Supply Co. ....	Hardware .....	3450	12 68
	Ginn & Co. ....	Books .....	3451	6 64
	B. L. Bowen .....	Cash advanced .....	3452	10 00
	Penna. Fuel Co. ....	Coal .....	3453	49 13
	McClelland & Co. ....	Ink .....	3454	25

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899.				
May 27	Hann & Adair.....	Printing .....	3455	14 30
	Cherington P. & E. Co.	" .....	3456	5 00
	F. W. Prentiss, V. Pt..	Bonds due June 1, 1899, 6 per cent .....	3457	10,000 00
	Spahr & Glenn.....	Printing .....	3458	20 25
	K. A. Orvis.....	Office supplies .....	3459	3 00
	Mrs. E. R. Hubler....	Clerical work .....	3460	9 87
	C. U. Tel. Co.....	Telephone service .....	3461	45
	Mrs. F. E. Meyers....	Laundry .....	3462	4 00
	J. F. Ridenour.....	Office supplies .....	3463	1 00
	Lawrence Press Co....	Printing .....	3464	5 75
	G. H. Young, Tr.....	Membership dues .....	3465	5 00
	J. Penn .....	Carting .....	3466	1 50
	Cent. Ohio Paper Co..	Envelopes .....	3467	5 20
	Webb Sta. & Ptg. Co..	Office supplies .....	3468	10 65
	H. Braun Sons & Co..	Red lead .....	3469	32
	J. M. & W. Westwater.	Burners .....	3470	1 50
	J. H. Grove.....	Insurance .....	3471	34 00
	Standard Oil Co.....	Oil .....	3472	8 50
	J. McL. Smith.....	Expenses as trustee .....	3473	6 20
29	J. T. Mack.....	" .....	3474	21 35
31	Lily Weeks .....	Janitor service .....	3475	7 50
	R. M. Rownd, P. M....	Postage .....	3476	35 00
June 1	J. H. Collins.....	Salary June, 1899, inst.....	3477	10 00
3	Lily Weeks .....	Serv. dept. phy. train.....	3478	5 00
	F. F. D. Albery.....	1-10 salary June, 1899, inst.	3479	15 00
5	F. W. Smyser.....	June salary .....	3480	80 00
6	J. R. Taylor.....	" .....	3481	110 00
	C. W. Shepherd.....	Fees remitted for serv. band	3482	15 00
	R. A. Abbott.....	" .....	3483	15 00
	H. A. White.....	Honorarium for serv. as commandant .....	3484	50 00
	Col. Gas Co.....	Gas bill for May .....	3485	119 40
	M. P. Brush.....	June salary .....	3486	80 00
	O. B. Jones.....	Salary June, 1899, inst.....	3487	120 00
8	E. O. Randall.....	" .....	3488	70 00
	J. H. Canfield.....	" .....	3489	500 00
	Alexis Cope .....	" .....	3490	187 50
	C. E. Barnet.....	" .....	3491	65 00
	F. W. Prentiss.....	" .....	3492	33 33
	Jean Blackford .....	" .....	3493	54 17
	E. D. Cockins.....	" .....	3494	58 33
	T. F. Hunt.....	" .....	3495	250 00
	W. F. Hunter.....	" .....	3496	250 00
	G. W. Knight.....	" .....	3497	250 00
	W. A. Kellerman.....	" .....	3498	225 00
	W. McPherson .....	" .....	3499	225 00
	C. N. Brown.....	" .....	3500	225 00
	A. C. Barrows.....	" .....	3501	225 00
	Edw. Orton.....	" .....	3502	225 00
	J. R. Smith.....	" .....	3503	225 00
	H. A. Weber.....	" .....	3504	225 00
	W. R. Lazenby.....	" .....	3505	225 00
	S. C. Derby.....	" .....	3506	225 00
	A. M. Bleile.....	" .....	3507	225 00
	R. D. Bohannan.....	" .....	3508	225 00

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899.				
June 8	W. F. Magruder.....	Salary June, 1899, inst.....	3509	225 00
	J. P. Gordy.....	" ".....	3510	225 00
	W. H. Scott.....	" ".....	3511	225 00
	B. F. Thomas.....	" ".....	3512	225 00
	J. V. Denney.....	" ".....	3513	225 00
	H. Osborn.....	" ".....	3514	225 00
	N. W. Lord.....	" ".....	3515	200 00
	F. A. Ray.....	" ".....	3516	200 00
	G. B. Kauffman.....	" ".....	3517	200 00
	Edw. Orton, Jr.....	" ".....	3518	180 00
	J. N. Bradford.....	" ".....	3519	180 00
	F. E. Sanborn.....	" ".....	3520	180 00
	G. W. McCoard.....	" ".....	3521	160 00
	C. P. Linhart.....	" ".....	3522	160 00
	H. C. Lord.....	" ".....	3523	160 00
	E. A. Hitchcock.....	" ".....	3524	150 00
	D. S. White.....	" ".....	3525	150 00
	W. D. Gibbs.....	" ".....	3526	140 00
	P. G. Bowman.....	" ".....	3527	140 00
	F. C. Caldwell.....	" ".....	3528	140 00
	F. C. Clark.....	" ".....	3529	135 00
	W. H. Page.....	" ".....	3530	135 00
	S. A. Norton.....	" ".....	3531	120 00
	R. I. Fulton.....	" ".....	3532	120 00
	W. H. Siebert.....	" ".....	3533	120 00
	J. E. Boyd.....	" ".....	3534	120 00
	E. B. Kinkead.....	" ".....	3535	110 00
	C. E. Sherman.....	" ".....	3536	100 00
	T. E. French.....	" ".....	3537	100 00
	C. W. Mesloh.....	" ".....	3538	100 00
	C. L. Arnold.....	" ".....	3539	100 00
	K. D. Swartzel.....	" ".....	3540	100 00
	A. W. Hodgman.....	" ".....	3541	100 00
	W. A. Knight.....	" ".....	3542	95 00
	C. W. Weick.....	" ".....	3543	95 00
	J. H. Schaffner.....	" ".....	3544	90 00
	C. W. Foulk.....	" ".....	3545	90 00
	J. A. Bownocker.....	" ".....	3546	90 00
	C. A. Dye.....	" ".....	3547	90 00
	W. L. Graves.....	" ".....	3548	90 00
	J. S. Hine.....	" ".....	3549	85 00
	F. L. Landacre.....	" ".....	3550	85 00
	A. E. Vinson.....	" ".....	3551	80 00
	E. M. Van Harlingen..	" ".....	3552	80 00
	C. Wissler.....	" ".....	3553	80 00
	C. Souther.....	" ".....	3554	80 00
	S. M. Elliott.....	" ".....	3555	75 00
	D. F. Pugh.....	" ".....	3556	70 00
	E. E. Harrold.....	" ".....	3557	70 00
	N. H. Brown.....	" ".....	3558	70 00
	E. E. Somermeier.....	" ".....	3559	65 00
	F. Ruhlen.....	" ".....	3560	60 00
	T. K. Lewis.....	" ".....	3561	60 00
	A. F. Hall.....	" ".....	3562	60 00
	W. F. Lavery.....	" ".....	3563	60 00
	C. B. Frederick.....	" ".....	3564	60 00

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899.				
June 8	H. Townshend .....	Salary June, 1899, inst.....	3565	55 00
	J. F. Cunningham.....	" " .....	3566	54 00
	G. S. Kellicott.....	" " .....	3567	50 00
	M. D. Jeffrey.....	" " .....	3568	50 00
	A. V. Bleininger.....	" " .....	3569	40 00
	Lucy Allen .....	" " .....	3570	40 00
	M. Dresbach .....	" " .....	3571	30 00
	F. A. Fish.....	" " .....	3572	30 00
	A. H. McIntire.....	" " .....	3573	30 00
	E. L. Ball.....	" " .....	3574	30 00
	S. E. Rasor.....	" " .....	3575	30 00
	H. Judd .....	" " .....	3576	30 00
	F. J. Hale.....	" " .....	3577	30 00
	J. B. Parker.....	" " .....	3578	30 00
	B. F. Maag.....	" " .....	3579	30 00
	J. H. Vosskuehler....	" " .....	3580	30 00
	E. L. Fullmer.....	" " .....	3581	25 00
	R. Fischer .....	" " .....	3582	25 00
	F. O. Clements.....	" " .....	3583	25 00
	O. V. Brumley.....	" " .....	3584	20 00
	R. C. Purdy.....	" " .....	3585	20 00
	G. W. Rightmire.....	" " .....	3586	20 00
	E. H. Bailey.....	" " .....	3587	15 00
	D. A. Kohr.....	" " .....	3588	10 00
	R. E. McIntosh.....	" " .....	3589	10 00
	H. Gamper .....	" " .....	3590	7 50
	W. C. McCracken.....	" " .....	3591	150 00
	Geo. Rose .....	" " .....	3592	65 00
	Chas. Low .....	" " .....	3593	54 17
	W. Standley .....	" " .....	3594	50 00
	B. LeBay .....	" " .....	3595	50 00
	T. Boude .....	" " .....	3596	45 00
	D. Clifford .....	" " .....	3597	45 00
	M. Peck .....	" " .....	3598	40 00
	F. K. Luke.....	" " .....	3599	40 00
	A. Chantler .....	" " .....	3600	40 00
	G. A. Goodspeed.....	" " .....	3601	40 00
	J. H. Brown.....	" " .....	3602	40 00
	D. D. Geren.....	" " .....	3603	40 00
	W. Whitestine .....	" " .....	3604	40 00
	H. Chantler .....	" " .....	3605	40 00
	G. C. Denny.....	" " .....	3606	40 00
	M. N. Cook.....	" " .....	3607	40 00
	J. Kelley .....	" " .....	3608	35 00
	W. C. Mills.....	" " .....	3609	25 00
	Mrs. E. R. Hubler....	" " .....	3610	20 00
	W. Townsel .....	" " .....	3611	25 00
	W. C. Wier.....	" " .....	3612	20 00
	A. G. McCall.....	" " .....	3613	20 00
	C. H. Woodruff.....	Services as carpenter .....	3614	60 00
8	Philip Long .....	Meals furn. trustees .....	3615	6 75
	B. S. Stephenson.....	Salary as quartermaster ...	3616	5 00
9	J. W. Smith.....	Lectures in Meteorology ...	3617	100 00
12	H. W. Hurlbut.....	Honorarium Bac. address..	3618	35 00
	J. H. Canfield.....	Cash adv. for guide .....	3619	2 75
	R. R. Bowker.....	Index .....	3620	2 00



## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899.				
June 14	Helman Taylor Co....	Books .....	3621	10 35
	Natl. Educat. Assn....	Membership dues .....	3622	2 00
	Cambridge Ent. Club..	Magazine .....	3623	2 00
	Boston Book Co.....	Books .....	3624	85 50
	Burrows Bros. Book Co	" .....	3625	33 78
	G. E. Stechert.....	" .....	3626	51 40
	L. T. Williams.....	Work in library .....	3627	12 83
	Am. Chem. Journal....	Books .....	3628	9 00
	Seraphim Blank Bk. Co	Binding .....	3629	144 40
	Cap. City Mch. Wks..	Belting .....	3630	14 56
	Ashcroft Mfg. Co.....	Planimeter .....	3631	12 75
	F. S. Johnston.....	Stenog. work .....	3632	9 05
	F. J. Hale.....	Drafting .....	3633	5 85
	E. H. Bailey.....	Labor .....	3634	13 65
	E. G. Bailey .....	" .....	3635	9 75
	E. Doddington & Co..	Lumber .....	3636	80
	W. T. Magruder.....	Cash advanced .....	3637	38
	Crosby S. Gag. & V. Co	Supplies .....	3638	14 87
	Penberthy Injector Co.	Repairs .....	3639	1 00
	Erner & Hopkins.....	Supplies .....	3640	75
	Campbell P. P. & M. Co	Counters .....	3641	10 40
	J. S. Bushnell.....	Ideal wheel .....	3642	13 00
	Howald & Conklin....	Shades .....	3643	16 15
	J. L. Roberts & Son...	Spring .....	3644	2 25
	W. C. Heller & Co....	Steel boxes .....	3645	1 90
	Mrs. L. H. Bulkley...	Desk .....	3646	12 00
	M. T. Davidson.....	Valves, etc.....	3647	3 20
	A. H. Smythe.....	Cases .....	3648	4 00
	Col. Brass Co.....	Brass .....	3649	20
	Boston Book Co.....	Books .....	3650	50 00
	McClelland & Co.....	Neostyle paper .....	3651	60
	J. Carbutt .....	Photo supplies .....	3652	4 20
	Kauffman Lattimer Co.	Supplies .....	3653	68 26
	E. Greiner .....	Glassware .....	3654	13 05
	Am. Aristotype Co....	Supplies .....	3655	8 32
	S. M. Elliott.....	Cash advanced .....	3656	4 32
	L. F. Sater, Atty. for S.			
	F. James .....	Settlement in full.....	3657	200 00
	Hatton Bros .....	Bandages and plaster .....	3658	2 70
	G. W. Rightmire.....	Cash advanced .....	3659	4 50
	C. P. Linhart.....	" .....	3660	1 60
	H. Gamper .....	Labor .....	3661	12 30
	A. H. Lyon.....	" .....	3662	5 25
	F. E. Sanborn.....	Cash advanced .....	3663	19 90
	J. H. Nold .....	Labor .....	3664	1 20
	Alum Creek Coal Co..	Coal .....	3665	7 50
	E. E. Sommermeier....	Cash advanced .....	3666	1 50
	Penna. Fuel Co.....	Coal .....	3667	5 29
	F. O. Clements.....	Extra services .....	3668	2 62
	F. J. Jeffrey.....	Labor .....	3669	13 88
	K. A. Passarge.....	Tuning piano .....	3670	2 00
	Z. L. White.....	Dry goods .....	3671	1 00
	T. K. Lewis.....	Photo supplies .....	3672	13 68
	A. Dobbie .....	Dry goods .....	3673	7 57
	General Elec. Co.....	Elect supplies .....	3674	4 50
	A. Spittal .....	Labor .....	3675	45 00

## STATEMENT II — Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899. June 14	S. A. Stedman.....	Surveys Pike Co.....	3676	10 00
	H. Osborn .....	Cash advanced .....	3677	10 78
	R. W. Funk.....	Labor .....	3678	12 75
	Haussman & Dunn....	Apparatus .....	3679	13 38
	J. Wannamaker .....	Books .....	3680	57 92
	C. C. Ely.....	" .....	3681	4 00
	Spahr & Glenn.....	Printing .....	3682	23 50
	Penna. Fuel Co.....	Coal .....	3683	30 28
	Champlin Ptg. Co.....	Printing .....	3684	9 35
	F. R. West.....	Steroscope views .....	3685	12 00
	Engelke & Bigelow....	Freight and cartage....	3686	39 36
	Murray City Coal Co..	Coal .....	3687	323 33
	A. McMichall .....	Lettering diplomas .....	3688	23 20
	Bee Pub. Co.....	Advertising .....	3689	12 50
	Col. Litho. Co.....	Printing .....	3690	35 00
	Col. Bank Note Co....	" .....	3691	127 00
	Ohio State Journal Co.	Advertising .....	3692	11 65
	Orvis & Marshall.....	Tpw. ribbon .....	3693	1 00
	Enquirer Co.....	Advertising .....	3694	11 65
	Blackw'd. Green & Co.	Iron .....	3695	50
	Jeffrey Mfg. Co.....	Wire .....	3696	50
	Natl. Carbon Co.....	Elect. supplies .....	3697	87
	R. E. McIntosh.....	Labor .....	3698	12 37
	J. C. Perry.....	" .....	3699	7 31
	F. E. Fleischer.....	" .....	3700	17 75
	F. S. Johnston.....	Clerical service .....	3701	16 20
	D. C. Beggs.....	Mats .....	3702	3 00
	Kilbourne & J. Mfg. Co	Hdw .....	3703	10 00
	J. S. Abbott & Co.....	" .....	3704	36 05
	D. M. Massie.....	Expenses as trustee .....	3705	45 27
	E. Thompson & Co.....	Books .....	3706	6 00
	W. H. Anderson.....	" .....	3707	18 00
	G. Bruder .....	Serv. as bandmaster .....	3708	22 00
	R. H. Marriott.....	Copying cadet records....	3709	3 00
	Agr. Student Pub. Co.	Advertising .....	3710	20 00
	Makio, 1889 .....	" .....	3711	50 00
	The Lantern .....	" .....	3712	55 00
	O. T. Corson.....	" .....	3713	22 50
	Assemb. & C. M. Her'd	" .....	3714	10 00
	The Adytum of '99....	" .....	3715	6 00
	Col. Wire & Iron Wks.	Wire guards .....	3716	11 50
	Col. M. & M. Sup. Co.	Rubber .....	3717	2 06
	Jno. McAllister .....	Labor .....	3718	18 00
	Standard Oil Co.....	Coal oil .....	3719	98
	Erner & Hopkins.....	Elect. supplies .....	3720	14 93
	M. C. Hunter.....	Labor .....	3721	5 32
	P. Hayden S. Hdw. Co	Metal .....	3722	18 64
	Kelton & Converse....	Lumber .....	3723	17 24
	Hayden's M. & M. Co	Coke .....	3724	10 55
	Hampden C. Wheel Co.	Emery wheel .....	3725	17 50
	Brown & S. Mfg. Co..	Castings .....	3726	3 71
	C. W. Weick.....	Extra services .....	3727	5 00
	C. A. Strelinger Co....	Chisels .....	3728	7 20
	B. B. Wells.....	Labor .....	3729	9 52
	Hall Collins Hdw. Co.	Office supplies .....	3730	2 18
	W. Erdman .....	Labor .....	3731	15 05

## STATEMENT II — Concluded.

Date.	To whom paid.	For what purpose.	No.	Amount.
1899.				
June 14	Tallmadge Hdw. Co...	Hdwe .....	3732	20 57
	Miller Furn. Co.....	Furniture .....	3733	15 00
	Hager & Graves,.....	Groceries .....	3734	23 82
	Mrs. M. J. Kellenberger	Serv. dept. dom. sei.....	3735	17 15
	Livingston's Seed Co..	Roses .....	3736	2 00
	P. G. Bowman.....	Cash advanced .....	3737	2 53
	W. H. Zink.....	Police service .....	3738	4 00
	Col. Supply Co.....	Hardware .....	3739	18 82
	Cent. O. Paper Co....	Paper .....	3740	43 75
	Kimball & Mathews...	Photo supplies .....	3741	15 32
	Schoedinger, F. & Co..	Hdwe .....	3742	8 10
	Dunn, Taft & Co.....	Dry goods .....	3743	8 49
	Nitschke Bros .....	Printing .....	3744	6 50
	Franklin Toil. Sup. Co.	Laundry .....	3745	25 79
	F. C. Caldwell.....	Salary for extra services...	3746	50 00
	J. W. Gleed.....	Honorarium for com. ad....	3747	50 00
	J. T. Mack.....	Expenses as trustee .....	3748	29 73
	J. A. Shauck.....	Salary, 1898-9 .....	3749	100 00
	P. G. Bowman.....	Cash advanced .....	3750	13 45
	F. E. Sanborn.....	" .....	3751	5 70
15	J. McL. Smith.....	Expenses as trustee .....	3752	26 00
20	F. C. McKinney.....	Guide and mess. duty.....	3753	13 37
	R. J. Seymour.....	" .....	3754	6 37
	M. Snow .....	" .....	3755	7 50
	F. R. West.....	" .....	3756	2 75
	J. F. Travis.....	Services as mess. and guide.	3757	3 12
	A. E. Day.....	" .....	3758	2 12
	Florence L. Bell.....	Work in record office.....	3759	2 45
	R. M. Rownd, P. M....	Postage .....	3760	22 00
	B. B. Wells.....	Labor .....	3761	11 00
	L. B. Wing.....	Expenses as trustee .....	3762	14 00
23	D. C. Beggs Co.....	Repp .....	3763	7 13
	Paul Jones .....	Expenses as trustee .....	3764	20 40
	J. McL. Smith.....	" .....	3765	7 81
24	Joe Garretson .....	Salary as plumb. helper....	3766	39 00
	J. C. Covan.....	Labor .....	3767	22 88
26	J. C. Sullivan.....	Refund of fees .....	3768	30 00
28	E. H. Bailey.....	Labor .....	3769	2 47
	E. G. Bailey.....	" .....	3770	11 07
	Col. Machine Co.....	Damage to gas engine ....	3771	100 00
	R. W. Funk.....	Labor .....	3772	19 58
30	By balance .....	.....		9,088 04
	Total .....	.....		\$277,573 06

## STATEMENT III.

In compliance with section 7 of the *Organic Act*, passed by the Legislature of Ohio, May 1, 1878, (Bates Annotated Ohio Statutes, sec. 4105-41) which requires the list of "the number of professors, officers, teachers and other employes, and the compensation of each, to be annually reported," I submit the following:

Employees.	Position.	Salary.
James H. Canfield.....	President .....	\$6,000 00
W. H. Scott .....	Professor of Philosophy .....	2,250 00
Edward Orton .....	" geology .....	2,250 00
W. R. Lazenby.....	" horticulture and forestry...	2,250 00
Josiah R. Smith.....	" Greek language & literature	2,500 00
Henry A. Weber.....	" agricultural chemistry....	2,250 00
Benj. F. Thomas.....	" physics .....	2,500 00
Geo. W. Knight.....	" history and political science	2,250 00
R. Daniel Bohannon....	" mathematics and astronomy	2,250 00
Herbert Osborne.....	" zoology and entomology...	2,250 00
Ernst A. Eggers.....	" German language, literature	2,250 00
C. Newton Brown.....	" civil engineering.....	2,250 00
Albert M. Bleile.....	" anatomy and physiology...	2,250 00
Wm. A. Kellerman.....	" botany .....	2,250 00
Thos. F. Hunt.....	" agriculture .....	2,250 00
Samuel C. Derby.....	" Latin language, literature..	2,250 00
Nathaniel W. Lord.....	" metallurgy and mineralogy	2,000 00
Frank E. Sanborn.....	Director of industrial department.....	1,800 00
Albert C. Barrows.....	Professor of English literature.....	2,250 00
Joseph V. Denney.....	" rhetoric and Eng'sh lang'ge	2,250 00
Benj. L. Bowen.....	" Romance languages .....	2,250 00
W. F. Hunter.....	Dean of law faculty.....	2,250 00
Geo B. Kauffman.....	Professor of pharmacy.....	2,000 00
J. P. Gordy.....	" pedagogy .....	2,250 00
Robt. I. Fulton.....	" elocution and oratory.....	1,200 00
Wm. T. Magruder.....	" mechanical engineering....	2,250 00
Edward Orton, Jr.....	Director school of ceramics.....	1,800 00
Frank A. Ray.....	Associate professor mining engineering..	2,000 00
Jos. N. Bradford.....	" " drawing .....	1,800 00
Wm. McPherson.....	" " chemistry .....	2,250 00
Geo. W. McCoard.....	Assistant professor mathematics.....	1,600 00
Sidney A. Norton.....	Lecturer in general chemistry.....	1,200 00
F. C. Caldwell.....	Associate professor physics.....	1,700 00
Henry C. Lord.....	Director observatory .....	1,600 00
C. E. Sherman.....	Assistant professor civil engineering....	1,000 00
E. A. Hitchcock.....	Associate professor mech'l engineering..	1,500 00
W. D. Gibbs.....	Assistant " agriculture .....	1,400 00
C. W. Mesloh.....	" " German .....	1,000 00
David S. White.....	Professor veterinary medicine .....	1,500 00
Thos. E. French.....	Assistant in drawing .....	1,000 00
F. C. Clark.....	" professor of economics.....	1,350 00
Olive B. Jones.....	Librarian .....	1,200 00
Chas. W. Weick.....	Foreman carpenter shop.....	950 00
William A. Knight.....	" machine shops .....	950 00
C. C. Sleffel.....	" forge room .....	380 00
F. W. Smyser.....	" " .....	480 00
J. E. Boyd.....	Assistant professor physics .....	1,200 00
Karl D. Swartzel.....	" " mathematics .....	1,000 00
W. L. Graves.....	" " rhetoric .....	900 00
Jas. S. Hine.....	Assistant in entomology .....	850 00
A. E. Vinson.....	" " agricultural chemistry.....	800 00
E. M. Van Harlingen....	Assistant professor anatomy and physi- ology .....	800 00



## STATEMENT III — Continued.

Employees.	Position.	Salary.
H. J. Noyes.....	Assistant professor dairy husbandry.....	500 00
E. E. Sommermeier.....	“ in metallurgy and mineralogy..	650 00
Arthur W. Hodgman.....	“ professor classic languages....	1,000 00
Frank Ruhlen.....	“ in agriculture .....	720 00
J. A. Bownocker.....	“ professor geology.....	900 00
W. H. Siebert.....	“ professor history .....	1,200 00
C. L. Arnold.....	“ in mathematics .....	1,000 00
C. A. Dye.....	“ professor pharmacy .....	900 00
W. F. Lavery.....	“ in veterinary medicine .....	600 00
E. E. Harold.....	Storekeeper .....	700 00
C. B. Frederick.....	Fellow in veterinary medicine .....	600 00
O. V. Brumley.....	“ .....	200 00
Thos. K. Lewis.....	Assistant in drawing .....	600 00
M. P. Brush.....	“ French .....	800 00
F. L. Landacre.....	“ zoology .....	850 00
A. V. Bleininger.....	“ ceramics .....	400 00
C. W. Foulk.....	“ analytical chemistry .....	900 00
Harriet Townshend.....	“ library .....	550 00
N. H. Brown.....	“ physics .....	700 00
J. H. Schaffner.....	“ botany .....	900 00
Horace Judd.....	Fellow in mechanical engineering.....	300 00
F. T. Hale.....	“ .....	300 00
F. A. Fish.....	Fellow and laboratory assistant in electrical engineering .....	300 00
Robert Fischer.....	Fellow in chemistry .....	250 00
F. O. Clements.....	“ .....	250 00
Maud Jeffreys.....	Assistant in library .....	500 00
Gertrude Kellicott.....	“ .....	500 00
C. B. Guittard.....	“ .....	350 00
Lucy Allen.....	“ .....	400 00
F. K. Luke.....	Florist .....	480 00
C. P. Linhart.....	Director physical training .....	1,600 00
Perla G. Bowman.....	Associate professor domestic science....	1,400 00
Sarah S. James.....	Assistant in domestic science.....	360 00
Cornelia P. Souther.....	“ .....	320 00
J. R. Taylor.....	Assistant professor rhetoric .....	1,100 00
Clark Wissler.....	“ in philosophy and pedagogy..	800 00
Stella Elliott.....	Associate director physical training.....	750 00
M. Dresbach.....	Fellow in anatomy and physiology.....	300 00
Emma L. Ball.....	“ mathematics .....	300 00
S. E. Rasor.....	“ mathematics .....	300 00
A. H. McIntire.....	“ industrial arts .....	300 00
J. F. Cunningham.....	Assistant in horticulture and forestry....	540 00
W. H. Page.....	Professor of law.....	1,350 00
E. B. Kinkead.....	“ .....	1,100 00
D. F. Pugh.....	“ .....	700 00
E. O. Randall.....	“ .....	700 00
G. W. Knight.....	“ .....	250 00
F. F. D. Alberry.....	Lecturer on law .....	150 00
J. H. Collins.....	“ .....	100 00
John A. Shauck.....	“ .....	100 00
George W. Rightmire.....	Assistant in American history.....	200 00
Don C. Huddleson.....	“ Gynasium .....	400 00
J. H. Vosskuehler.....	“ Drawing .....	300 00
Oscar Erf.....	Student assistant in butter making.....	60 00
Marion Imes.....	“ dairying .....	60 00
John B. Parker.....	Fellow in rhetoric .....	300 00
Benjamin F. Maag.....	Emerson McMillin fellow in astronomy..	300 00
E. L. Fullmer.....	Fellow in botany .....	250 00
Alexis Cope.....	Secretary .....	2,250 00

## STATEMENT III — Concluded.

Employees.	Position.	Salary.
C. E. Barnet.....	Accountant .....	780 00
F. W. Prentiss.....	Treasurer .....	400 00
Jean Blackford.....	Executive clerk .....	650 00
Edith D. Cockins.....	Registrar .....	700 00
W. C. McCracken.....	Chief engineer .....	1,500 00
Chas. Low.....	Assistant engineer .....	650 00
Wm. Standley.....	“ .....	600 00
Geo. R. Rose.....	Plumber .....	780 00
H. Martz.....	Watchman .....	540 00
James Kelley.....	Lawnkeeper .....	420 00
Mrs. E. R. Hubler.....	Telephone attendant .....	210 00
Benj. LeBay.....	Steam fitter .....	600 00
Wash. Townsel.....	Janitor .....	300 00
G. A. Goodspeed.....	“ .....	480 00
Henry Chantler.....	“ .....	480 00
Arthur Chantler.....	“ .....	480 00
J. H. Brown.....	“ .....	480 00
M. N. Cook.....	“ .....	480 00
D. D. Geren.....	“ .....	480 00
Wm. Whitestine.....	“ .....	480 00
G. C. Denny.....	“ .....	480 00
E. H. Bailey.....	“ .....	150 00
R. E. McIntosh.....	“ .....	100 00
H. Gamper.....	.....	75 00
Wm. Weir.....	Elevator attendant .....	200 00
W. C. Mills.....	Curator of the archæological collection. . .	300 00
A. G. McCall.....	Janitor .....	240 00
James Stainbrooke.....	First fireman .....	450 00
Thos. Boude.....	Second fireman .....	360 00
Marion Peck.....	Helper .....	400 00

COLUMBUS, OHIO, September, 21, 1899.

*To the Board of Trustees of the Ohio State University:*

The undersigned, the Finance Committee, have, in obedience to your instructions, examined the accounts and vouchers of F. W. Prentiss, the Treasurer of the University, for the period from July 1, 1898, to June 30, 1899, and carefully compared them with the vouchers in possession of the Secretary, and hereby certify that the report of the Treasurer submitted to the Board for the period named, which is the last fiscal year, is correct.

D. M. MASSIE,

PAUL JONES,

T. J. GODFREY,

*Finance Committee.*

Report of Treasurer of the Ohio State University to the Secretary of Agriculture and the Secretary of the Interior, of amount received under act of Congress of August 30, 1890, in aid of Colleges of Agriculture and the Mechanic Arts, and of the disbursements thereof, to and including June 30, 1899.

Balance on hand July 1, 1898 .....	\$267 42
Date of receipt of installment for 1898-'99, July 18, 1898....Amount..	24,000 00
Total available for year ended June 30, 1899.....	\$24,267 42
Disbursements thereof for and during the year ended June 30, 1899:	
Agriculture, as per Schedule A.....	5,218 51
Mechanic Arts, as per Schedule B.....	8,062 83
English Language, as per Schedule C.....	754 29
Mathematical Science, as per Schedule D.....	1,555 71
Natural or Physical Science, as per Schedule E.....	7,976 33
Economic Science, as per Schedule F.....	662 44
Total expended during year.....	\$24,230 11
Balance remaining unexpended July 1, 1899.....	37 31

I hereby certify that the above account is correct and true, and, together with the schedules hereunto attached, truly represents the details of expenditures for the period and by the institution named, and that said expenditures were applied only to instruction in agriculture, the mechanic arts, the English language, and the various branches of mathematical, physical, natural, and economic science, with special reference to their application in the industries of life and to the facilities for such instruction.

F. W. PRENTISS,  
*Treasurer.*



## SCHEDULE A.

Disbursements for instruction in Agriculture and for facilities for such instruction, during the year ended June 30, 1899.

Name of instructors.	Subjects taught for which paid from "Morrill Fund."	Amount.
I. For salaries of instructors:		
Thos. F. Hunt, Professor.....	Agriculture .....	\$250 00
W. D. Gibbs, Asso. Professor...	" .....	140 00
Frank Ruhlen, Assistant .....	" .....	60 00
H. A. Weber, Professor.....	Agricultural chemistry.....	225 00
A. E. Vinson, Assistant.....	" .....	80 00
W. R. Lazenby, Professor.....	Horticulture .....	225 00
J. F. Cunningham, Assistant....	" .....	54 00
D. S. White, Professor.....	Veterinary Medicine .....	150 00
W. F. Lavery, Assistant.....	" .....	60 00
C. B. Frederick, Assistant.....	" .....	60 00
O. V. Brumley, Fellow.....	" .....	20 00
H. P. Miller, Lecturer.....	Agriculture .....	20 00

## SCHEDULE A — Concluded.

	Amount.
II. For facilities as follows:	
Text-books and reference books.....	\$159 21
Department of Agriculture.	
Seeds, \$18.75; model of barn, \$6.00; tools and hardware, \$86.17; threshing, \$99.70; live stock, \$140.00; harness, \$48.00; feed, \$573.98; farm implements, \$177.28; scales, \$88.98; machinery, \$115.24; blacksmithing, \$52.70; apparatus, \$53.03.....	1,459 83
Dairy Laboratory.	
Ice, \$5.05; milk, \$277.72; dairy implements, \$144.37; dairy supplies, \$112.53; dairy machinery, \$177...71; separator, \$300.00; hollow-ware, \$64.56; boiler, \$430.00; ice machine, \$324.79; Sterilizer, \$24.00; Shaker, \$25.00.....	1,885 73
Department of Agricultural Chemistry.	
Chemical apparatus and supplies, \$57.32; steam table, \$25.00....	82 32
Department of Veterinary Medicine.	
Surgical instruments, \$52.82; skeletons, \$63.75; prints of animals, \$3.12; mattress, \$23.55; dissecting material, \$27.81.....	171 05
Department of Horticulture.	
Laundry tub, \$10.43; hardware and tools, \$11.90; microscope, \$94.04 .....	116 37
Total .....	\$5,218 51

## SCHEDULE B.

Disbursements for instruction in Mechanic Arts and for facilities for such instruction, during the year ended June 30, 1899.

Name of instructors.	Subjects taught for which paid from "Morrill Fund."	Amount.
I. For salaries of instructors:		
Edw. Orton, Jr., Director.....	Ceramics .....	\$180 00
C. N. Brown, Professor.....	Civil engineering.....	225 00
C. C. Sherman, Assistant.....	" .....	100 00
J. N. Bradford, Asso. Professor..	Drawing .....	180 00
T. E. French, Asst. Professor..	" .....	100 00
T. K. Lewis, Assistant.....	" .....	60 00
J. H. Vosskuehler, Fellow.....	" .....	30 00
F. C. Caldwell, Asso. Professor..	Electrical engineering.....	140 00
F. A. Fish, Fellow.....	" .....	30 00
F. E. Sanborn, Asso. Professor..	Industrial arts .....	225 00
W. A. Knight, F'm'n Mch. Shop	" .....	95 00
C. W. Weick, F'm'n Carp. Shop.	" .....	95 00
Chas. Sleffel Foreman.....	" .....	95 00
A. H. McIntire, Fellow.....	" .....	30 00
W. T. Magruder, Professor.....	Mechanical engineering.....	225 00
E. A. Hitchcock, Asst. Professor	" .....	150 00
A. F. Hall, Machinist.....	" .....	60 00
F. J. Hale, Fellow.....	" .....	30 00
H. Judd, Fellow.....	" .....	30 00
N. W. Lord, Professor.....	Metallurgy and mineralogy...	200 00
E. E. Sommermeier, Assistant....	" .....	65 00
F. A. Ray, Asso. Professor.....	Mine engineering.....	200 00
G. B. Kauffman, Professor.....	Pharmacy .....	200 00
C. A. Dye, Asst. Professor.....	" .....	90 00

## SCHEDULE B — Concluded.

	Amount.
II. Facilities as follows:	
Text-books and reference books .....	\$598 68
Department of Ceramics.	
Machinery and apparatus, \$406.05; clays, cements, etc., \$46.46; hardware and castings, \$63.00; canvas, \$9.00; coal and coke, \$97.94 .....	622 45
Department of Civil Engineering.	
Transits, \$232.25; electric lamp, \$5.40.....	237 65
Department of Drawing.	
Photo supplies, \$104.76; optical parts, \$17.75; photo apparatus and instruments, \$109.89 .....	232 40
Department of Electrical Engineering.	
Machinery and repairs, \$49.56; battery plates, \$47.90; voltmeter, \$87.50; ammeter, \$11.25 .....	196 21
Department of Industrial Arts.	
Machinery and apparatus, \$107.65; shop supplies, \$95.13; iron and steel, \$161.76; lumber, \$307.91; hardware and tools, \$143.40	815 85
Department of Mechanical Engineering.	
Machinery and repairs, \$390.21; econometer, \$65.00; viscosimeter, \$12.00; lathe, \$295 20; tools and hardware, \$160.70; machine parts and castings, \$112.46; rope, \$13.29; condenser, \$400.00; frames, \$1.75; calorimeter, \$32.00; electric supplies, \$1.76; sep- arators, \$28.00; pulleys, \$17.14; lumber, \$9.10; oil, \$27.81, wire cloth, \$6.40; iron and steel, \$45.02; scales, \$28.17; hang- ers, \$18.29; counter, \$16.00; indicator, \$74.26.....	1,754 56
School of Mines.	
Gas, \$6.80; apparatus, \$33.75; coke, \$16.00; fire clay, \$35.05; assay furnace, \$246.05; photographs of mines, \$27.53.....	365 18
Department of Pharmacy.	
Laboratory desks .....	165 00
Common to Above Departments.	
Apparatus, etc.....	239 85
Total .....	\$8,062 83



## SCHEDULE C.

Disbursements for instruction in English Language and for facilities for such instruction, during the year ended June 30, 1899.

Names of instructors.	Subjects taught for which paid from "Morrill Fund."	Amount.
I. For salaries of instructors:		
A. C. Barrows, Professor.....	English literature .....	\$225 00
J. V. Denney, Professor.....	" language & rhetoric	225 00
J. R. Taylor, Asst. Professor...	" " "	110 00
W. L. Graves, Asst. Professor...	" " "	90 00
J. B. Parker, Fellow.....	" " "	30 00

## SCHEDULE C — Concluded.

	Amount.
II. For facilities as follows:	
Text-books and reference books .....	\$74 29
Total .....	\$754 29

## SCHEDULE D.

Disbursements for instruction in Mathematical Science and for facilities for such instruction, during the year ended June 30, 1899.

Names of instructors.	Subjects taught for which paid from "Morrill Fund."	Amount.
I. For salaries of instructors:		
R. D. Bohannon, Professor.....	Mathematics .....	225 00
G. W. McCoard, Asso. Prof.....	" .....	160 00
C. L. Arnold, Asst. Professor...	" .....	100 00
K. D. Swartzel, Asst. Professor..	" .....	100 00
E. L. Ball, Fellow.....	" .....	30 00
S. E. Rasor, Fellow.....	" .....	30 00
H. C. Lord, Director Observatory	" and astronomy...	160 00

## SCHEDULE D — Concluded.

	Amount.
II. For facilities as follows:	
Text-books and reference books .....	721 05
Department of Astronomy.	
Geisler tubes, \$6.00; thermometer, \$9.25; repairing instruments, \$10.75; hardware and tools, \$3.66 .....	29 66
Total .....	\$1,555 71

## SCHEDULE E.

Disbursements for instruction in Natural or Physical Science and for facilities for such instruction, during the year ended June 30, 1899.

Names of instructors.	Subjects taught for which paid from "Morril Fund."	Amount.
I. For salaries of instructors:		
A. M. Bleile, Professor.....	Anatomy and physiology.....	\$225 00
E. M. Van Harlingen, Assistant..	" " .....	80 00
M. Dresbach, Fellow.....	" " .....	30 00
W. A. Kellerman, Professor....	Botany .....	225 00
J. H. Schaffner, Assistant .....	" .....	90 00
E. L. Fullmer, Fellow.....	" .....	25 00
Wm. McPherson, Professor.....	Chemistry .....	225 00
L. A. Norton, Lecturer.....	" .....	120 00
C. W. Foulk, Assistant.....	" .....	90 00
Robert Fischer, Fellow.....	" .....	25 00
F. O. Clements, Fellow.....	" .....	25 00
Edw. Orton, Professor.....	Geology .....	225 00
J. A. Bownocker, Assistant.....	" .....	90 00
B. F. Thomas, Professor.....	Physics .....	225 00
J. E. Boyd, Assistant.....	" .....	120 00
N. H. Brown, Assistant.....	" .....	70 00
H. Osborne, Professor.....	Zoology and entomology....	225 00
J. S. Hine, Assistant.....	" " .....	85 00
F. L. Landacre, Assistant.....	" " .....	85 00

## SCHEDULE E — Concluded.

	Amount.
II. For facilities as follows:	
Text-books and reference books .....	\$542 67
Department of Anatomy and Physiology.	
Optical parts, \$45.06; laboratory supplies, \$3.55; microscope, \$120.80; model of eye, \$19.00; apparatus, \$1.15.....	189 56
Department of Botany.	
Lichens, \$3.10; labels, \$25.54; hardware and tools, \$51.84; her- barium paper, \$57.60; laboratory supplies, \$8.00; optical parts, \$6.15; mounting specimens, \$70.05; microscope, \$285.77; plants, \$6.35; specimen cards, \$9.50.....	523 90
Department of Chemistry.	
Apparatus and supplies, \$244.71; laboratory desks, \$427.38; steam table, \$30.00; chemical glassware, \$807.79.....	1,509 88
Department of Geology.	
Fossils, \$32.70; specimens, \$150.25.....	182 95
Department of Physics.	
Instruments, \$52.00; apparatus, \$118.45; electric supplies, \$149.78	320 23
Department of Zoology and Entomology.	
Hardware and tools, \$8.35; laboratory supplies, \$54.54; micro- scope, \$232.46; drugs and chemicals, \$29.75; specimens, \$18.50; instruments, \$3.00; specimen boxes, \$45.00; mounting hippo- potamus, \$140.00 .....	531 60
Common to Above Departments.	
Chemicals and apparatus .....	1,890 54
Total .....	\$7,976 33



## SCHEDULE F.

Disbursements for instruction in Economic Science and for facilities for such instruction, during the year ended June 30, 1899.

Names of instructors.	Subjects taught for which paid from "Morrill Fund."	Amount.
I. For salaries of instructors:		
G. W. Knight, Professor.....	Americ'n history and political science .....	\$250 00
F. C. Clark, Asso. Professor.....	Economics and sociology....	135 00
W. H. Siebert, Asso. Professor..	European history .....	120 00
G. W. Rightmire, Fellow.....	American history .....	20 00

## SCHEDULE F — Concluded.

	Amount.
II.. For facilities as follows:	
Text-books and reference books .....	137 44
Total .....	\$662 44

# OHIO STATE UNIVERSITY

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TWENTY <sup>ninth</sup> ~~EIGHTH~~ ANNUAL REPORT

OF THE

BOARD OF TRUSTEES

TO THE

GOVERNOR OF OHIO

FOR THE

Year Ending June 30, 1899.

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PART II.

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The State has no material resources at all comparable with its citizens,  
and no hope of perpetuity except in the intelligence  
and integrity of its people.

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COLUMBUS  
PUBLISHED BY THE UNIVERSITY  
JUNE, 1899.

Entered at the Postoffice at Columbus, Ohio, as Second-class Matter.

117

# CALENDAR

1899

## JULY

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23 30	24 31	25	26	27	28	29

## AUGUST

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

## SEPTEMBER

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

## OCTOBER

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

## NOVEMBER

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

## DECEMBER

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24 31	25	26	27	28	29	30

1900

## JANUARY

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

## FEBRUARY

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28			

## MARCH

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

## APRIL

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

## MAY

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

## JUNE

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30





## DAYS AND DATES

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1899

Thanksgiving Recess .....	}	Thursday,	November 30.
		Friday,	December 1.
First term ends .....		Wednesday,	December 20.
Christmas Vacation.			

1900

Second Term begins .....	Wednesday,	January 3.
First Semester (College of Arts, Philosophy and Science) ends .....	Friday,	February 2.
Second Semester (College of Arts, Philosophy and Science) begins .....	Monday,	February 5.
University Day .....	Thursday,	February 22.
Second Term ends .....	Friday,	March 23.
Third Term begins .....	Monday,	March 26.

Spring Recess.

Meeting of Trustees .....	Wednesday,	April 4.
High School Day .....	Friday,	May 18.
Senior Vacation begins .....	Saturday,	May 19.
Field Day—Athletic Association .....	Saturday,	May 19.
Competitive Drill, Cadet Battalion .....	Saturday,	May 26.
Memorial Day .....	Wednesday,	May 30.
Final Examinations (all Colleges) .....	}	Monday to June 4.
		Friday, June 8.
Baccalaureate Sermon .....	Sunday,	June 10.
Entrance Examinations (8 A. M.) .....	}	Monday, June 11.
		Tuesday, June 12.
Class Day .....	Monday,	June 11.
Meeting of Trustees .....	Tuesday,	June 12.
Alumni Day .....	Tuesday,	June 12.
COMMENCEMENT .....	Wednesday,	June 13.

Summer Vacation.

Entrance Examinations (8 A. M.) .....	Monday,	September 17
Registration .....	Tuesday,	September 18
Lectures and Class-work begin (all Colleges) .....	Wednesday,	September 19.
Meeting of Trustees .....	Wednesday,	September 26

# BOARD OF TRUSTEES

1898-1899

		Term Expires.
WM. I. CHAMBERLAIN.....	Hudson.....	May 13, 1899.
DAVID M. MASSIE.....	Chillicothe.....	" 1900.
JOHN T. MACK.....	Sandusky.....	" 1901.
LUCIUS B. WING.....	Newark.....	" 1902.
THOMAS J. GODFREY.....	Celina.....	" 1903.
J. McLAIN SMITH.....	Dayton.....	" 1904.
PAUL JONES.....	Columbus.....	" 1905.
OSCAR T. CORSON.....	Columbus.....	" 1906.

## OFFICERS OF THE BOARD

* WM. I. CHAMBERLAIN.....	President.
J. McLAIN SMITH.....	Vice President.
ALEXIS COPE.....	Secretary.
FRED W. PRENTISS.....	Treasurer.

## COMMITTEES OF THE BOARD

EXECUTIVE	FARM	FINANCE
L. B. WING	J. McLAIN SMITH	D. M. MASSIE
T. J. GODFREY	L. B. WING	T. J. GODFREY
PAUL JONES	JOHN T. MACK	J. McLAIN SMITH

## FACULTY AND COURSES OF STUDY

THOMAS J. GODFREY	WM. I. CHAMBERLAIN	JOHN T. MACK
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\* Term expired May 13th.

# THE FACULTIES





# Members of the Faculties, and Other Instructors

1898-1899

JAMES HULME CANFIELD.....University Grounds

*President*

A. B., Williams, 1868; A. M., Williams, 1877; LL. D., Williams, 1893. Railroad construction, 1863-1872; Practicing Attorney, 1872-'77; Superintendent of Schools, St. Joseph, Michigan, 1874-'77; Professor of History and English Literature, State University of Kansas, 1877-'84; Professor of History and Political Science, State University of Kansas, 1884-'87; Professor of American History and Civics, State University of Kansas, 1887-'91; Chancellor of the University of Nebraska, 1891-'95; present position since 1895.

EDWARD ORTON.....100 Twentieth street

*Professor of Geology, and State Geologist*

A. B., Hamilton, 1848; Ph. D., Hamilton, 1875; LL. D., Ohio State University, 1881. Student of Theology, Lane Seminary, 1849; Student at Lawrence Scientific School, Harvard University, 1852; Student, Andover, 1854; Professor of Natural Science, State Normal School, Albany, N. Y., 1856-'59; Principal, Chester Academy, N. Y., 1859-'65; Professor of Natural History, Antioch, 1865-'72; President of Antioch, 1872-'73; President of the Ohio State University, 1873-'81; State Geologist, 1869; present position since 1881.

WILLIAM HENRY SCOTT.....131 Fifteenth avenue

*Professor of Philosophy*

\*A. B., Ohio University, 1862; M. A., Ohio University, 1865; LL. D., Ohio University and Ohio Wesleyan, 1884. Superintendent of Public Schools, Athens, Ohio, 1862-'64; Principal of the Preparatory Department of Ohio University, 1864-'65; Pastor of Main Street M. E. Church, Chillicothe, Ohio, 1865-'67; Pastor of Town Street M. E. Church, Columbus, Ohio, 1867-'69; Professor of Greek, Ohio University, 1869-'72; President and Professor of Philosophy, Ohio University, 1872-'88; President and Professor of Philosophy, Ohio State University, 1883-'95; present position since 1895.

SIDNEY AUGUSTUS NORTON.....363 East Town street

*Lecturer in Chemistry*

A. B., Union, 1856; A. M., Union, 1859; M. D., Miami Medical College, 1867; Ph. D., Kenyon, 1878; LL. D., Wooster, 1881. Student at Bonn, Leipsiz, Heidelberg; Teacher, Poughkeepsie Collegiate Academy, 1856; Tutor, Union, 1857; Principal Hamilton (Ohio) High School, 1858; Instructor of Natural Science, Cleveland High Schools, 1859-'66; Teacher of Natural Science, Mt. Auburn, 1866-'72; Professor of Chemistry, Miami, 1867-'72; Acting Professor of Physics, Union, 1872-'73; Professor of Chemistry, Ohio State University, 1873-'95; present position since 1895.

NATHANIEL WRIGHT LORD.....338 West Eighth avenue

*Professor of Mineralogy and Metallurgy, Director of the School of Mines, and Dean of the College of Engineering*

E. M., Columbia, 1876. Present position since 1878.

SAMUEL CARROLL DERBY.....93 Fifteenth avenue

*Professor of Latin*

A. B., Harvard, 1866; A. M., Harvard, 1869 (in course), 1877 (by examination). Principal of Schools, Ilion, N. Y., 1866-'67; Assistant in Dixwell's Classical School, Boston, 1867-'70; Professor of Language, Antioch, 1870-'81; President, Antioch, 1877-'81; Student, Latin and History, Harvard, 1876-'77; Student, Latin and History, Johns Hopkins, 1880-'81; Student, Latin, Harvard, 1892-'93; present position since 1881.

WILLIAM RANE LAZENBY.....307 West Sixth avenue

*Professor of Horticulture and Forestry*

B. Agr., Cornell, 1874; M. Agr., Iowa Agricultural College, 1887. Instructor Horticulture and Botany, Cornell, 1874-'77; Assistant Professor of Horticulture, Cornell, 1877-'81; Lecturer, N. Y. State Grange, 1874-'81; Director Ohio U. S. Experiment Station, 1882-'84; Professor of Botany and Horticulture, Ohio State University, 1881-'92; present position since 1892.

JOSIAH RENICK SMITH.....950 Madison avenue

*Professor of the Greek Language and Literature*

A. B., Amherst, 1871; A. M., Amherst, 1883. Principal, Mound Street School, Columbus, 1871-'73; Teacher, Columbus High School, 1873-'76; Assistant Professor of Ancient Languages, Ohio State University, 1876-'81; Student at Leipsic, 1881-'83; present position since 1883.

HENRY ADAM WEBER.....1342 Forsythe avenue

*Professor of Agricultural Chemistry*

Graduate of Polytechnic School, Kaiserslautern, 1866; Student, Chemistry under Von Liebig and Reischner, and of Mineralogy under Von Kobell, Munich, 1866-'68; Ph. D., Ohio State University, 1879; Ohio Geological Survey, Chemical Department, 1869-'74; Professor of General Chemistry and Mineralogy, Illinois State University, 1874-'82; present position since 1884.

BENJAMIN FRANKLIN THOMAS.....University Grounds

*Professor of Physics, and State Sealer of Weights and Measures*

B. Sc., Ripon, 1874; M. Sc., Ripon, 1877; Ph. D., Stevens Institute, 1880. Instructor in Mathematics and Physics, Carleton College, Northfield, Minnesota, 1876-'79; Professor of Physics, University of Missouri, 1880-'85; engaged in electrical test work at the International Electrical Exhibition at Philadelphia, 1884, and at the World's Columbian Exhibition, Chicago, 1893; present position since 1885.

GEORGE WELLS KNIGHT.....University Grounds

*Professor of American History and Political Science and Constitutional Law; and in charge of European History*

A. B., University of Michigan, 1878; A. M., University of Michigan, 1883; Ph. D., University of Michigan, 1884. Student, Law, University of Michigan, 1878-'79; Principal of High School, Lansing, Michigan, 1879-'81; Student, History and Political Science, University of Michigan, 1882-'84; Instructor in History, Ann Arbor High School, 1883-'85; Professor of History and English Literature, Ohio State University, 1885-'87; Student at Universities of Halle, Berlin, and Freiburg, 1889-'90; present position since 1887.

ROSSER DANIEL BOHANNAN.....Sixteenth and Indianola avenues

*Professor of Mathematics*

B. Sc., C. E., E. M., University of Virginia, 1876. Student of Mathematics and Physics, Cambridge, England, 1880-'82; Göttingen, 1882-'83; Teacher of Mathematics and Latin, Suffolk Collegiate Institute, Virginia, 1876-'77; Teacher of Mathematics and English, New York Latin School, New York City, 1877-'78; Professor of Mathematics and Natural Science, Emory and Henry College, 1878-'80; Acting Professor of Mathematics, University of Virginia, 1883-'84; Assistant Professor in Mathematics and Physics, University of Virginia, 1884-'87; Professor of Mathematics and Astronomy, Ohio State University, 1887-'95; present position since 1895.

C. NEWTON BROWN.....1343 Forsythe avenue

*Professor of Civil Engineering*

C. E., Miami, 1886. Resident Engineer of the Ironton Extension of the Pittsburgh, Cincinnati, Chicago & St. Louis R. R., 1881; Ohio Geological Survey, 1882; Assistant in Mathematics and Civil Engineering, Ohio State University, 1883-'85; Associate Professor of Civil Engineering, Ohio State University, 1885-'90; present position since 1890.

ERNST AUGUST EGGERS.....190 West Eleventh avenue, University Grounds

*Professor of Germanic Languages and Literatures*

Student in Gymnasium at Hanover, the Sorbonne, College de France; at Michigan State Normal School. Instructor in German in the High Schools of Wisconsin and Michigan for ten years; Assistant in German, Ohio State University, 1886-'88; Assistant Professor of German, same institution, 1888-'90; present position since 1890.

ALBERT MARTIN BLEILE.....218 King avenue

*Professor of Anatomy and Physiology*

M. D., Starling Medical College, 1876. Student, Vienna, Chemistry and Physiology, 1876-'77; Student, Physiology, Leipsic, 1877-'78; Student Anatomy and Histology, Paris, 1878-'79; Lecturer on Experimental Physiology, Starling Medical College, 1879; Professor of Physiology, Starling Medical College, 1884; present position since 1891.

WILLIAM ASHBROOK KELLERMAN.....175 Eleventh avenue

*Professor of Botany*

B. Sc., Cornell, 1874; Ph. D., Zurich, 1881. Professor of Natural Science, Wisconsin State Normal School, 1874-'79; Professor of Botany and Horticulture, Kentucky State College, 1881-'82; Professor of Botany and Zoology, Kansas State Agricultural College, 1888-'87; Professor of Botany, Kansas State Agricultural College, 1888-'91; Botanist, Kansas State Board of Agriculture, 1888-'91; present position since 1891.

THOMAS FORSYTH HUNT.....188 West Tenth avenue

*Professor of Agriculture, and Dean of the College of Agriculture and Domestic Science*

B. Sc., University of Illinois, 1884; M. Sc., University of Illinois, 1892. Assistant to Illinois State Entomologist, 1885-'86; Assistant in Agriculture, University of Illinois, 1886-'88; Assistant Agriculturalist, Illinois Experiment Station, 1888-'91; Professor of Agriculture, Pennsylvania State College, 1891-'92; present position since 1892.

GEORGE BEECHER KAUFFMAN.....University Grounds

*Professor of Pharmacy, and Dean of the College of Pharmacy*

B. Sc., Ohio Wesleyan University, 1877; Pharm. D., Scio, 1894. Associate Professor of Pharmacy, Ohio State University, to 1894. Present position since 1894.

BENJAMIN LESTER BOWEN.....775 East Broad street

*Professor of Romance Languages and Literatures*

A. B., University of Rochester, 1881; Ph. D., Johns Hopkins University, 1888. Post-graduate work, University of Rochester, 1881-'82. Professor of Languages, New Windsor College, Maryland, 1881-'83; Graduate Student and Assistant in French, Johns Hopkins University, 1883-'86, and 1887-'88; Student at the Universities of Paris, Bonn, Rome and Madrid, 1885-'86, and 1886-'87; Professor of French and Latin, Bowdoin College, 1888-'89; Acting Associate Professor of French Language and Literature, Ohio State University, 1889-'90; Associate Professor of Romance Languages and Literatures, Ohio State University, 1890-'94; present position since 1894.

JOSEPH VILLIERS DENNEY.....The Dennison

*Professor of Rhetoric and the English Language, and Secretary of the University Faculty*

A. B., University of Michigan, 1885. Journalist, 1885-'88; Principal of the Aurora (Illinois) High School, 1888-'90; Instructor in English and Graduate Student, University of Michigan, 1890-'91; Associate Professor of Rhetoric, Ohio State University, 1891-'94; present position since 1894.

ALLEN CAMPBELL BARROWS.....15th and Indianola avenues

*Professor of English Literature, and Dean of the College of Arts, Philosophy and Science*

A. B., Western Reserve, 1861; A. M., Western Reserve, 1866; D. D., Iowa College, 1889. Teacher, Latin and Greek, Phillips Academy, 1865-'66; Professor of Physics, Western Reserve, 1866-'70; Professor of Latin and English Literature, Western Reserve, 1870-'71; Professor of English Literature and History, Iowa Agricultural College, 1887-'94; present position since 1894.

EDWARD ORTON, JR.....The Normandie

*Director of the Department of Clay-Working and Ceramics*

E. M., Ohio State University, 1884. Assistant to Ohio Geological Survey, 1882; Chemist for Columbus and Hocking Coal and Iron Company, 1885-'86; Superintendent of Bessie Furnace, 1887-'88; Chemist, Iron Works, Homestead, Pennsylvania, 1891; present position since 1894.



\*JOHN THOMAS MARTIN.....1194 Fair avenue

*Professor of Military Science and Tactics*

Graduated from West Point, with rank of Second Lieutenant, U. S. Artillery, 1889. Promoted to Rank of First Lieutenant, 5th Artillery, U. S. A., 1896. Appointed to present position, Commandant of University Battalion, September, 1895.

ROBERT IRVING FULTON.....Delaware, Ohio

*Professor of Elocution and Oratory*

A. M., Ohio Wesleyan University, 1887. Law Student, University of Virginia, 1877; Superintendent Public Schools, Berlin, Ill., 1877-'78; Associate Principal, School of Oratory, Kansas City, Mo., 1878-'81, and Director of same, 1884-'92; Instructor, Elocution, Ohio Wesleyan, Missouri State, and Kentucky State Universities, 1882-'90; Assistant Professor, English Department, Kansas State University, 1890-'91; Professor of Elocution and Oratory, Ohio Wesleyan University, since 1891; Lecturer, Elocution and Oratory, Ohio State University, 1892-'95; present position since 1895.

WILLIAM FORREST HUNTER.....1032 Bryden Road; 18 Board of Trade

*Dean of the College of Law, Professor of the Law of Sales, Bailments, Evidence, Mortgages, Wills Suretyship, Construction of Contracts, Law of Corporations, Judge of Moot Courts*

Admitted to the Bar in 1861; Student, University of Michigan Law School; practicing attorney since 1866; Dean of the Law School, Ohio State University, 1892-'96; present position since 1896.

WILLIAM THOMAS MAGRUDER.....329 West Eighth avenue

*Professor of Mechanical Engineering*

M. E., Stevens Institute of Technology, 1881. Student in Machine Design and Shop Practice, Taunton, Mass., 1881-'86, and in Chemistry and Mathematics, etc., Johns Hopkins University, 1886-'87; Professor of Mechanical Engineering (practical and theoretical) Vanderbilt University, 1887-'96; present position since September, 1896.

J. P. GORDY.....The Normandie

*Professor of Education*

Ph. D., University of Leipsic, 1884; LL. D., Western University of Pennsylvania, 1897. Student in Philosophy at Leipsic, 1883-'84; Student in Philosophy at Johns Hopkins University, 1886; Assistant in Revision of Webster's Dictionary, 1884-'85; Professor of Philosophy and Pedagogy, Ohio University, Athens, 1886-'96; present position since September, 1896.

WILLIAM McPHERSON, JR.....97 Hamilton avenue

*Professor of Chemistry*

B. Sc., Ohio State University, 1887; M. Sc., Ohio State University, 1890; D. Sc., Ohio State University, 1895. Instructor in Chemistry and Physics, Toledo High School, 1887-'89; Instructor in Chemistry, Toledo High School and Manual Training School, 1889-'92; Assistant in Chemistry, Ohio State University, 1892-'93; Assistant Professor in Chemistry, Ohio State University, 1893-'95; Associate Professor, General Chemistry, Ohio State University, 1895-'97; present position since 1897.

DAVID FRANKLIN PUGH.....1320 Highland street; Board of Trade

*Professor of Equity Jurisprudence and Law of Real Property*

Member of West Virginia Constitutional Convention, 1872; Member of Legislature, West Virginia, 1874-'75; Prosecuting Attorney, Tyler County, West Virginia, 1870-'80; Common Pleas Judge, Franklin County, Ohio, since 1887; present position since 1891.

EMILIUS OVIATT RANDALL.....1025 Oak street; Supreme Court Room

*Professor of Agency, Commercial Law and Partnership*

Ph. B., Cornell, 1874; LL. B., LL. M., Ohio State University, 1892. Admitted to practice, 1890; Secretary Ohio State Historical Society; Reporter Supreme Court of Ohio. Present position since 1893.

\* Absent with his Battery since May, 1898. Lieut. Herbert A. White, U. S. A., 6th Cavalry, temporarily in charge.

EDGAR BENTON KINKEAD.....Wyandotte avenue; Board of Trade  
*Professor of Pleading and Probate Practice, Torts, Criminal Law, Ethics, Trial Practice  
 and Law of Contracts (Engineers)*

Assistant State Law Librarian, 1887-1894; Special Counsel for Attorney-General of Ohio,  
 1897-1900. Present position since 1895.

WILLIAM HERBERT PAGE.....The Vendome; 27 Board of Trade  
*Professor of Elementary Law, Contracts and Wills*

B. A., Yale, 1889; LL. B., Ohio State University, 1892; LL. M., same institution, 1894.  
 Instructor in Central High School, Columbus, Ohio, 1889-'96. Present position since Sep-  
 tember, 1896.

CHRISTOPHER P. LINHART.....The Great Southern; The Vendome  
*Director of the Gymnasium, and Instructor in Physical Education*

M. D., Western Reserve University, Cleveland, 1882. Post-graduate student, same institu-  
 tion, 1882-'83. Student and Instructor, Dr. Anderson's Normal School of Physical Education,  
 1886; student in Harvard Summer School, 1887; House Physician and Surgeon, Cleveland City  
 Hospital, 1883-'85; Assistant Demonstrator of Anatomy, Western Reserve University, 1885-'86,  
 and Assistant Visiting Physician Charity Hospital, Cleveland, 1886; Director of Y. M. C. A.  
 Gymnasium, Orange, N. J., 1886 and 1888; Instructor in Physiology and Physical Education,  
 Newark, (N. J.), Academy, 1887 and 1890, and Director of Physical Education, Newark, N. J.,  
 Public Schools, 1888-'90; Medical Director Manhattan Athletic Club, 1891 and 1892; Instructor  
 in Physiology and Physical Education, Union College, 1892-'97. Present position since 1897.

DAVID STUART WHITE.....West Fifth avenue  
*Professor of Veterinary Medicine, and Dean of the College of Veterinary Medicine*

D. V. S., Ohio State University, 1890. Student, Royal Veterinary Schools of Hanover,  
 Berlin and Dresden, 1890-'91; at Imperial Veterinary Institute of Vienna, 1891-'93; Assistant in  
 Veterinary Medicine, Ohio State University, 1893. Present position since 1895.

HERBERT OSBORN.....357 West Seventh avenue  
*Professor of Zoology and Entomology*

B. Sc., Iowa Agricultural College, 1879. M. Sc., same institution, 1880. Student of Ento-  
 mology at Museum Comparative Zoology (Cambridge, Mass.) 1881-'82; College of Physicians  
 and Surgeons, Des Moines, 1884-85 (Anatomy and Physiology); Zoological Station Naples  
 (Smithsonian table), 1894-'95. Assistant in Zoology and Entomology, Iowa Agricultural Col-  
 lege, 1880-'83; Assistant Professor of Zoology and Entomology, Iowa Agricultural College,  
 1884-'86. Professor and Entomologist, Iowa Agricultural College, 1887-'98; Special Agent  
 Division Entomologist U. S. Department of Agriculture, 1885-'94. State Entomologist, Iowa,  
 1898.

FRANK EDWIN SANBORN.....380 West Eighth avenue  
*Director of the Department of Industrial Arts*

S. B., in Mechanical Engineering, Massachusetts Institute of Technology, 1889. Assistant  
 in Drawing, Massachusetts Institute of Technology, 1889-'90; Teacher in Manual High School  
 Department, Pratt Institute, 1890-'91; Walker Special Instructor, Tufts College, 1891-'94; In-  
 structor in Mechanical Department, Tufts College, 1894-'98. Present position since Sep-  
 tember, 1898.

JOSEPH NELSON BRADFORD.....54 West Tenth avenue  
*Professor of Drawing*

M. E., Ohio State University, 1883. Draftsman, Ohio Geological Survey, 1882; Machinist  
 and Draftsman, Pittsburg, Cincinnati & St. Louis Railroad, 1883-85; Assistant in Mechanical  
 Engineering and Drawing, Ohio State University, 1885-'90; Assistant Professor of Drawing,  
 Ohio State University, 1890-'93. Present position since 1893.

HENRY CURWEN LORD.....401 West Sixth avenue  
*Director of the Emerson McMillen Observatory, and Associate Professor of Astronomy*

B. Sc., University of Wisconsin, 1889. Assistant in Washburn Observatory, University of  
 Wisconsin; with Thompson-Houston Electric Company, 1889; Assistant in Mathematics and  
 Astronomy, Ohio State University, 1891-'94; elected Fellow, Royal Astronomical Society, 1897.  
 Present position since 1895.

- FRANK ARNOLD RAY.....137 King avenue  
*Associate Professor of Mine Engineering*  
 M. E., Ohio State University, 1887. Since then engaged in various lines of work coming within the range of Mine Engineering; Assistant Professor of Mine Engineering, Ohio State University, 1895-'96. Present position since 1896.
- FRANCIS CARY CALDWELL.....380 West Eighth avenue  
*Associate Professor of Electrical Engineering*  
 A. B., Cornell, 1890; M. E., Cornell, 1891. With Thompson-Houston Works, Lynn, Mass., 1891-'92; Student at the National Polytechnic, Zurich, 1892-'93; Assistant Professor of Physics, Ohio State University, 1893-'97. Present position since 1897.
- PERLA G. BOWMAN.....The Dennison  
*Associate Professor of Domestic Science; in charge of the Department of Domestic Economy*  
 Graduate of Toledo High School; Graduate of Toledo Manual Training School; Student at Wells College; Instructor in Toledo Manual Training School; Director of Domestic Science, Toledo Manual Training School; Special Student at Pratt Institute (Brooklyn), and the University of Michigan. Present position since September, 1897.
- OLIVE B. JONES.....53 Eleventh avenue  
*Librarian*  
 Assistant Librarian, 1887. Student, Library Science, Amherst, summer of 1892. Present position since 1893.
- EMBURY ASBURY HITCHCOCK.....380 West Eighth avenue  
*Associate Professor of Experimental Engineering*  
 M. E., Cornell, 1890. Straightline Engine Company, Syracuse, N. Y., 1889; Corliss Steam Engine Company, Providence, R. I., 1890-'93; Assistant in Mechanical Engineering, Ohio State University, 1893-'95; Assistant Professor, Experimental Engineering Ohio State University, 1895-'97. Present position since 1897.
- FREDERICK CONVERSE CLARK.....Neil avenue  
*Associate Professor of Economics and Sociology*  
 A. B., University of Michigan, 1887; A. M., University of Michigan, 1888; Ph. D., University of Michigan, 1891. Student at Halle and Berlin, 1893-'95; Instructor in History and Economics, Ann Arbor High School, 1888-'92; Assistant Professor of Political Economy, Stanford University, 1892-'93; Assistant Professor of Economics and Sociology, Ohio State University, 1895-'98. Present position since 1898.
- WILBUR HENRY SIEBERT.....1332 Highland street  
*Associate Professor of History*  
 A. B., Ohio State University, 1888; A. B., (with honorable mention) Harvard University, 1889; M. A., Harvard, 1890. Student, Freiburg and Berlin, 1890-'91; Student, Harvard, 1895; Assistant in History and Political Science, Ohio State University, 1891-'93; Assistant Professor of History, Ohio State University, 1893-'95, 1897-'98; Student, Harvard University, 1895-'97. Present position since 1898.
- WILLIAM DAVID GIBBS.....319 West Fifth avenue  
*Associate Professor of Agriculture*  
 B. Sc., University of Illinois, 1893. Fellowship in Agriculture, University of Illinois, 1893-'94; Post-graduate work, University of Illinois and University of Wisconsin, 1895; Expert Assistant in Division of Agricultural Soils of the United States Department of Agriculture, summer of 1895; Teacher of Bacteriology, University of Illinois, fall term, 1893; Assistant in Animal Husbandry, University of Illinois, winter term, 1894; Assistant in Agriculture, Ohio State University, spring and fall terms, 1895; Assistant Professor of Agriculture, 1895-'98. Present position since 1898.
- STELLA M. ELLIOTT.....1457 Worthington street  
*Associate Director of the Gymnasium*  
 Student, University of Nebraska, three years; Chautauqua School of Physical Education, summer of 1897; Assistant in Physical Training, University of Nebraska, two years; Y. M. C. A. classes in Physical Training, Lincoln, Nebraska, one year, and in Aurora, Illinois, one year; Assistant Director of Gymnasium, 1897-'98. Present position since 1898.



GEORGE WASHINGTON MCCOARD.....Neil avenue

*Assistant Professor of Mathematics*

B. A., Bethany, West Virginia, 1873; M. A., Bethany, 1882. Principal of Oakdale Classical Normal Institute, Allegheny County, Pennsylvania, 1873-'74; Private Tutor in Cleveland, Ohio, 1874-'80; Principal of Public Schools, Irving Park, Chicago, 1880-'81; Teacher of Latin and Mathematics, Columbus High School, 1881-'82; Assistant in Mathematics and Latin, Ohio State University, 1882-'87. Present position since 1887.

CHARLES WALTER MESLOH.....University Grounds

*Assistant Professor of German*

A. B., Ohio State University, 1889; M. A., Ohio State University, 1895. Student in the University of Chicago, 1894; Student, University of Berlin, 1896-'97; Assistant in German, Ohio State University, 1889-'95. Present position since 1895.

HERBERT JAMES NOYES.....Richland City, Wisconsin

*Assistant Professor of Dairy Husbandry*

President, National Butter and Cheese Makers' Association, 1891; Chief Instructor, Wisconsin Dairy School, 1892-'94; Instructor, Wisconsin Dairymen's Association, 1894. Present position since 1895.

JAMES STEWART HINE .....248 West Fourth avenue

*Assistant in Entomology*

B. Sc. (H. and F.) Ohio State University, 1893. Student in Entomology, Cornell, 1895. Present position since 1895.

JAMES ELLSWORTH BOYD.....25 Maynard avenue

*Assistant Professor of Physics*

B. Sc., Ohio State University, 1891; M. Sc., Cornell, 1896. Student in Physics and Mathematics, Ohio State University, 1893-'95; Student in Experimental and Theoretical Physics, Cornell, 1895-'96; also Student in Sibley College of Mechanic Arts, Cornell, summer of 1895. Assistant in Physics, Ohio State University, 1891-'95; held scholarship in Physics, Cornell, 1895. Present position since September, 1896.

JOSEPH RUSSELL TAYLOR.....86 King avenue

*Assistant Professor of Rhetoric*

B. A., Ohio State University, 1887; M. A., Columbia, 1897. Taught in Township Schools, Madison County, Ohio, 1887-'88; Assistant in Drawing, Ohio State University, 1889-'94; Student, English, Columbia, 1896-'97; Assistant in Rhetoric, Ohio State University, 1894-'97. Present position since 1897.

CHRISTOPHER ELIAS SHERMAN.....772 Oak street

*Assistant Professor of Civil Engineering*

C. E., Ohio State University, 1894. Engaged in Civil Engineering in Ohio, Tennessee, Virginia, North Carolina and Arizona for three years, during college course; also engaged in railroad, geological and governmental engineering work. Present position since September, 1896.

WILLIAM LUCIUS GRAVES.....1313 Forsythe avenue

*Assistant Professor of Rhetoric*

B. A., Ohio State University, 1893; M. A., Ohio State University, 1897. Principal High School, Coshocton, 1894-'95; Fellow and Assistant in Rhetoric and English Language, Ohio State University, 1895-'96. Present position since 1896.

ARTHUR WINFRED HODGMAN.....164 West Ninth avenue

*Assistant Professor of the Classic Languages*

A. B., Harvard, 1890; A. M., Harvard, 1893; Ph. D. (Classical Philology) Harvard, 1896. Student in Graduate School, Harvard, Classical Philology, 1892-'96. Instructor in Preparatory Schools, Quincy, Duxbury, Mass., 1890-'92; Assistant in Greek and Latin, Ohio State University, 1896-'97. Present position since September, 1897.



CLAIR ALBERT DYE.....169 King avenue

*Assistant Professor of Pharmacy*

G. Ph., Ohio State University, 1891. Post-graduate student in Chemistry and Pharmacy, Ohio State University; Assistant in Chemistry and Pharmacy, 1890-'94; Assistant in Pharmacy, 1894-'98. Present position since 1898.

THOMAS EWING FRENCH.....435 East Naghten street

*Assistant Professor of Drawing*

M. E., Ohio State University, 1895. Assistant in Drawing Department three years preceding graduation; Draftsman, The Smith-Vaile Company, Dayton, 1888-'90; Instructor in Mechanical Drawing, Y. M. C. A., Dayton, 1888-'91; Chief Draftsman, The Smith-Vaile Company, Dayton, 1891; Assistant in Drawing, 1891-'98. Present position since 1898.

CHARLES WILLIAM FOULK.....41 Eleventh avenue

*Assistant Professor of Analytical Chemistry*

B. A., Ohio State University, 1894. Assistant in General Chemistry, 1896-'98. Present position since September, 1898.

JOHN ADAMS BOWNOCKER.....1594 Neil avenue

*Assistant Professor of Geology*

B. Sc., Ohio State University, 1889; D. Sc., Ohio State University, 1897. Principal of High School, Martin's Ferry, 1889-'92; Fellow in Geology, University of Chicago, 1892-'94; Graduate Scholar, Yale University, 1894-'95; Assistant Geological Survey of Ohio, 1892; Assistant Geological Survey of New Jersey, 1893; Assistant in Geology, 1895-'98. Present position since 1898.

EDWARD M. VAN HARLINGEN.....1594 Neil avenue

*Assistant Professor of Anatomy and Physiology*

B. Sc., Ohio State University, 1883; M. Sc., Ohio State University, 1897. Graduate Student Ohio State University, 1896-'97; Assistant in Anatomy and Physiology, 1897-'98. Present position since 1898.

FAXON FRANKLIN DUANE ALBERY.....37 Lexington avenue; 119½ South High street

*Lecturer on the Law of Insurance*

Student of Law and Philosophy in the University of Berlin and the University of Leipsic. Present position since September, 1896.

JAMES HENRY COLLINS.....57 Lexington avenue; Ruggery Building

*Lecturer on Federal Practice*

In practice for thirty years. Present position since 1891.

JOHN ALLEN SHAUCK.....95 Winner avenue; Supreme Court Room

*Lecturer on Supreme Court Practice and Special Cases*

B. A., Otterbein University; LL. B., University of Michigan, 1867; A. M., Otterbein University, 1870; LL. D., Otterbein University, 1897. Judge of the Supreme Court of Ohio.

CHARLES LINCOLN ARNOLD.....328 West Eighth avenue

*Assistant in Mathematics*

B. Sc., Ohio State University, 1890; M. Sc., Ohio State University, 1894. Post-graduate Student, University of Chicago and Ohio State University, 1894-'95. Present position since 1890.

CHARLES WILLIAM WEICK.....51 East Eighth avenue

*Assistant in the Industrial Arts and Instructor in Pattern Making and Founding*

B. Sc., Industrial Arts, Ohio State University, 1898. Student, Cornell University, summer of 1898; Foreman in pattern shops Buffalo Forge Co., Buffalo, N. Y., 1881-'88; Johnson Steel Co., Johnstown, Pa., 1888-'89; Draftsman Buffalo Forge Co., Buffalo, N. Y., 1889-'92; Chief Draftsman and Designer, Horner Machine Co., Holyoke, Mass., 1892-'93. Present position since 1898.

WILLIAM ABNER KNIGHT.....206 West Lane avenue  
*Assistant in the Industrial Arts and Instructor in Machine Work*  
 Present position since 1893.

KARL DALE SWARTZEL.....57 East Eighth avenue  
*Assistant in Mathematics*

B. Sc., Ohio State University, 1893; M. Sc., Ohio State University, 1894. Fellow and Assistant in Mathematics, Ohio State University, 1894-'95. Present position since 1895.

THOMAS KENYON LEWIS.....68 East Seventh avenue  
*Assistant in Drawing*

B. Sc., Ohio State University, 1894. Graduate Student, Ohio State University, 1894-'95. Summer of 1897 and summer of 1898 at Cincinnati Art Academy. Present position since graduation.

\*CHARLES A. BRUCE.....234 West Tenth avenue  
*Assistant in French*

B. A., Ohio State University, 1895. Student of French, Amherst, 1895. Present position since graduation.

FRANCIS LEROY LANDACRE.....70 West Tenth avenue  
*Assistant in Zoology*

B. A., Ohio State University, 1895. Present position since graduation.

WILLIAM FINLEY LAVERY.....North Dormitory  
*Assistant in Veterinary Medicine*

D. V. M., Ohio State University, 1890. Veterinary practitioner, 1892-'96. Present position since 1896.

†CHARLES CONRAD SLEFFEL.....174 West First avenue  
*Assistant in Industrial Department and Foremaster*

Sixteen years' experience in work-shops. Present position since September, 1896.

ALBERT EARL VINSON.....134 West Ninth avenue  
*Assistant in Agricultural Chemistry*

Instructor in Chemistry, Y. M. C. A., Dayton, Ohio, 1895. Present position since September, 1896.

\*FREDERICK EDWARD KESTER.....1473 Neil avenue  
*Assistant in Physics*

M. E. (in E. E.), Ohio State University, 1895. Fellow in Physics, Ohio State University, 1895-'97. Present position since 1897.

JOHN H. SCHAFFNER.....79 East Third avenue  
*Assistant in Botany*

A. B., Baker University, Kansas, 1893. A. M., University of Michigan, 1894; M. S., Baker University, 1896. Student in Botany, Zoology and Geology, University of Michigan, 1893-'95. Student in Botany and Paleo-Botany, University of Chicago, 1896-'97. Assistant in Botany, University of Michigan, 1894-'95. Professor of Natural Sciences, University of South Dakota, 1895-'96.

CLARK WISSLER.....56 East Fifth avenue  
*Assistant in Philosophy and Pedagogy*

B. A., Indiana University, 1897. Assistant in Philosophy, Indiana University, 1895-'97.

\* Absent on leave.

† Resigned December, 1898.

- JOHN FERGUSON CUNNINGHAM.....1462 Worthington street  
*Assistant in Horticulture and Forestry*  
 B. Sc., (in Horticulture) 1897, Ohio State University. Fellow and Laboratory Assistant in Horticulture and Forestry, 1897-'98.
- CHARLES BYRON FREDERICKS.....Veterinary Hospital  
*Assistant in Veterinary Medicine*  
 V. M. and S., Ontario Veterinary College, 1893. In practice since graduation. Fellow in Veterinary Medicine, 1897-'98.
- \*HARRY WALDO KUHN.....221 West Eleventh avenue  
*Assistant in Mathematics*  
 B. Sc., Ohio State University, 1897. Fellow and Assistant in Mathematics, 1897-'98.
- †RAYMOND MOLLYNEAUX HUGHES.....  
*Assistant Director of the Department of Clay-working and Ceramics*  
 B. A., Miami, 1893. Student of Chemistry, Chicago University, 1894; Student of Chemistry, Miami, 1894-'95; Teacher of Chemistry and Physics, High School, Hamilton, Ohio, 1893-'95; Student in Chemistry at Massachusetts Institute of Technology, 1897-'98.
- MURRAY P. BRUSH.....532 East Broad street  
*Assistant in Romance Languages*  
 A. B., Princeton, 1894; Ph. D., Johns Hopkins, 1898. Student, French Language and Literature in Paris, winter of 1895-'96, attending lectures at Sorbonne, College de France, and Ecole des Hautes-Etudes; Romance Department of Johns Hopkins, 1894-'95 and 1896-'97. Summer of 1897 in Libraries of Italy.
- FRANK RUHLEN.....1568 Neil avenue  
*Assistant in Agriculture*  
 B. Sc., (Agr.) Ohio State University, 1896.
- ‡SARAH STUBBS JAMES.....  
*Assistant in Domestic Economy and Instructor in Domestic Art*  
 Student in University of Cincinnati, 1892-'93. Student in Miami University, Oxford, O., 1887-'88. Student in Institute of Technology, Boston, Mass., 1896-'97. Student in Columbia University, 1897-'98. Teacher in the Public Schools of Cincinnati, 1875-'79, and in Woodward High School, Cincinnati, O., 1879-'84.
- ALBERT V. BLEININGER.....North Dormitory  
*Assistant Director of the Department of Clay Working and Ceramics*  
 Present position since 1898.
- NEWTON HENRY BROWN.....1609 North High street  
*Assistant in Physics*  
 M. E. (in E. E.), Ohio State University, 1893; M. A., Cornell University, 1898; Student, Assistant in Physics, 1892-'93; Assistant in Physics, Ohio State University, 1893-'96. Present position since September, 1898.
- GEORGE WASHINGTON RIGHTMIRE.....1404 Summit street  
*Assistant in American History*  
 B. Ph., Ohio State University, 1895; M. A., 1898. Teacher in Columbus High School. Present position since 1898.
- EDWARD EVERETT SOMMERMEIR.....113 West Frambes avenue  
*Assistant in Metallurgy and Mineralogy*  
 G. Ph., Ohio State University, 1898. Student Laboratory Assistant in Chemistry, 1897-'98. Present position since September, 1898.

\* Absent on leave.

† Resigned September, 1898.

‡ Resigned February, 1899.

- DON CARLOS HUDDLESON.....249 West Lane avenue  
*Assistant in Gymnasium*  
 G. Ph., Ohio State University, 1897. Medical Student, 1897. Summer School of Physical Training Chautauqua, 1898. Present position since 1898.
- BURT BIDWELL HERRICK.....  
*Instructor in Cheese Making*
- ELISHA SMITH .....  
*Assistant in Cheese Making*
- CORNELIA PORTER SOUTHER.....The Dennison  
*Assistant Professor of Domestic Art.*  
 Graduate of Mary Institute (Washington University), St. Louis, Mo., 1883. Graduate Student Mary Institute, 1883-'85. Handarbeitslehrerin, Seminar des Carola-Vereins, Leipsic, 1896-'97. Investigations in Domestic Art Methods in foreign cities, 1896-'98. Teacher of Sewing, Mrs. Ball's Private School, St. Louis, 1898. Present position since February, 1899.
- FREDERICK WILLIAM SMYSER.....Seventh avenue  
*Assistant in the Industrial Department and Forge-master*  
 S. B., Massachusetts Institute of Technology, 1896. Instructor in Mechanical Drawing on the Massachusetts Nautical Training Ship "Enterprise," 1896-'97. Present position since January, 1899.
- JOSEPH HENRY VOSSKUEHLER.....  
*Assistant in Drawing*  
 Designer, Gross Lithographing Co., Dayton, Ohio, 1889-'90; Draftsman, The Stilwell-Bierce and Smith-Vaile Co., Dayton, 1890-'96; Finckel & Finckel, Patent Attorneys, Columbus, 1897. Present position since September, 1898.
- ROBERT FISHER.....810 Franklin avenue  
*Fellow, and Laboratory Assistant in Chemistry*  
 G. Ph., 1895, M. Ph., 1896, Ohio State University. Special Student in Chemistry, same institution, 1896-'97.
- HORACE JUDD.....22 West Woodruff avenue  
*Fellow, and Laboratory Assistant in Mechanical Engineering*  
 M. E., 1897, Ohio State University.
- FRANK ORVILLE CLEMENTS.....  
*Fellow, and Laboratory Assistant in Chemistry*
- MELVIN DRESBACH.....236 West Eighth avenue  
*Fellow, in Anatomy and Physiology*  
 B. Sc., 1897, Ohio State University.
- WILLIAM C. MILLS.....91 West Frambes avenue  
*Curator of Archaeology*  
 B. Sc. (H. and F.), Ohio State University, 1898.
- FREDERICK T. HALE.....239 West Tenth avenue  
*Fellow, and Laboratory Assistant in Mechanical Engineering*  
 M. E., Ohio State University, 1898.
- JOHN BERNARD PARKER.....43 West Woodruff avenue  
*Fellow, and Assistant in Rhetoric*  
 B. A., Ohio State University, 1898. Present position since September, 1898.



- FRED ALAN FISH.....239 West Eleventh avenue  
*Fellow, and Laboratory Assistant in Electrical Engineering*  
 M. E. (in E. E.), Ohio State University, 1898.
- EMMA LEANNA BALL.....225 King avenue  
*Fellow, and Assistant in Mathematics*  
 B. Sc., Ohio State University, 1895; M. Sc., same institution, 1896.
- ALFRED HEBER McINTIRE.....240 West Eighth avenue  
*Fellow in Industrial Arts*  
 M. E. (in E. E.), Ohio State University, 1898.
- SAMUEL EUGENE RASOR.....22 West Woodruff avenue  
*Fellow, and Assistant in Mathematics*  
 B. Sc., Ohio State University, 1898. Present position since September, 1898.
- OLIVER V. BRUMLEY.....  
*Fellow, and Assistant in Veterinary Medicine*  
 Veterinary Surgeon's certificate, Ohio State University, 1897. Practiced 1897-'98.
- BENJAMIN MAAG.....164 West Ninth avenue  
*Emerson McMillen Fellow, and Assistant in Astronomy*  
 Ph. B., Wooster University, 1893.
- EDWARD L. FULLMER.....420 West Eighth avenue  
*Fellow in Botany*
- HARRIET TOWNSHEND.....53 West Eleventh avenue  
*Library Assistant*  
 Present position since September, 1895.
- MAUD DOROTHY JEFFREY.....65 West Eleventh avenue  
*Library Assistant*  
 B. Ph., Ohio State University, 1895. Student of Library Science, Ohio State University, 1895-'96. Student of Library Science, Amherst, summer of 1897. Present position since September, 1896.
- GERTRUDE STOWELL KELLCOTT.....1332 Highland street  
*Library Assistant*  
 Student, Ohio State University, 1888-'95. Student of Library Science, Ohio State University, 1895-'96. Student of Library Science, Amherst, summer of 1897. Present position since September, 1896.
- LUCY ALLEN.....1490 Neil avenue  
*Library Assistant*  
 B. A., Ohio State University, 1897. Student in Library Science under Dr. G. E. Wire, summer of 1898 at Ohio State University. Present position since September, 1898.
- CLAUD B. GUITTARD.....80 McMillen avenue  
*Library Assistant*

## CHANGES, 1899-1900

## WITHDRAWN

President James H. Canfield, Professor Robert I. Fulton, Assistant Professor Edward Van Harlingen, Assistant Director of Ceramics Raymond M. Hughes, Assistant Charles C. Sleffel, Assistant Murray P. Brush, Assistant Harry W. Kuhn, Assistant Sarah S. James, Assistant Newton H. Brown, Assistant Elisha Smith, Assistant Frederick W. Smyser, Assistant Charles W. Weick, Fellow and Assistant Samuel E. Rasor, Fellow and Laboratory Assistant Robert Fisher, Fellow and Laboratory Assistant Frank O. Clements.

## APPOINTMENTS

REV. WILLIAM OXLEY THOMPSON, D. D. .... University Grounds  
*President*

CHARLES SMITH PROSSER. ....  
*Associate Professor of Historical Geology*

B. S., Cornell University, 1883; M. S., Cornell University, 1886. Instructor in Paleontology, Cornell University, 1885-'88; Assistant Paleontologist, U. S. Geological Survey, 1882-'92; Professor of Natural History, Washburn College, Topeka, Kansas, 1892-'94; Professor of Geology, Union College, Schenectady, N. Y., 1894-'99. Present position since 1899.

CHARLES BRADFIELD MORREY. ....  
*Assistant Professor of Anatomy and Physiology*

B. A., Ohio State University, 1890; Post-graduate Student, Ohio State University, 1890-'91; M. D., Starling Medical College, 1896. Assistant in Latin, Ohio State University, 1890-'92; Assistant in Physiology, Ohio State University, 1892-'95; Student in Vienna and Paris, 1897-'99. Present position since 1899.

WILLIAM EDWARDS HENDERSON. ....  
*Assistant Professor of Analytical Chemistry*

A. B., University of Wooster, 1891; M. A., 1894; Ph. D., Johns Hopkins University, 1897. Graduate Student Johns Hopkins University, 1893-'97. Fellow in Chemistry, Johns Hopkins University, 1896-'97. Professor of Natural Sciences, College of Emporia, Kansas, 1891-'93. Professor of Chemistry, Ohio University, 1897-'99. Present position since 1899.

EDWIN D. SHURTER, A. M. ....  
*Assistant Professor of Rhetoric and Public Speaking*

GEORGE H. MCKNIGHT, PH. D. ....  
*Assistant Professor of Rhetoric and English Language*

JOHN B. SANBORN. ....  
*Assistant in American History*

A. B., University of Wisconsin, 1896; A. M., University of Wisconsin, 1897; Ph. D., University of Wisconsin, 1899. Graduate Student University of Wisconsin, 1896-'99. Scholar and Assistant in American History, University of Wisconsin, 1898-'99.

SILAS MARTIN. .... 1269 Dennison avenue  
*Assistant in Drawing*

DONALD ALEXIS KOHR. ....  
*Fellow, and Laboratory Assistant in Chemistry*

B. Ph., Ohio State University, 1898. Graduate Student in Chemistry and Mathematics, 1898-'99. Laboratory Assistant in Chemistry, 1898-'99.

S. W. COLLETT, M. Sc. ....  
*Fellow in Botany*

JOHN WESLEY YOUNG. .... 883 East Main street  
*Fellow, and Assistant in Mathematics*

B. Ph., Ohio State University, 1899.

DAVID T. KEATING, B. PH. .... 1317 East Broad street  
*Fellow in Philosophy*

## CHANGES IN TITLES

GEORGE W. McCOARD,	Assistant Professor of Mathematics Associate Professor of Mathematics
CHARLES WALTER MESLOH,	Assistant Professor of German Associate Professor of Germanic Languages
ARTHUR WINFRED HODGMAN,	Assistant Professor of the Classic Languages Associate Professor of the Classic Languages
JOSEPH RUSSELL TAYLOR,	Assistant Professor of Rhetoric Assistant Professor of English Literature
JOHN ADAMS BOWNOCKER,	Assistant Professor of Geology Associate Professor of Inorganic Geology
CHARLES A. BRUCE,	Assistant in French Assistant Professor of the Romance Languages
CHARLES LINCOLN ARNOLD,	Assistant in Mathematics Assistant Professor of Mathematics
KARL D. SWARTZEL,	Assistant in Mathematics Assistant Professor of Mathematics
JOHN H. SCHAFFNER,	Assistant in Botany Assistant Professor of Botany
FRED. ALAN FISH,	Fellow and Laboratory Assistant in Electrical Engineering Assistant in Electrical Engineering
OLIVER V. BRUMLEY,	Fellow and Assistant in Veterinary Medicine Assistant in Veterinary Medicine

## EXECUTIVE DEPARTMENT

1898-'99

JAMES H. CANFIELD.....	President
ALEXIS COPE.....	Secretary Board of Trustees and Bursar
W. C. McCracken.....	Chief Engineer
JEAN BLACKFORD.....	Executive Clerk
EDITH D. COCKINS.....	Registrar
C. E. BARNET.....	Accountant
CHARLES LOWE.....	Assistant Engineer
THOMAS BOUDE.....	First Fireman
W. E. CASE.....	Second Fireman
JAMES KELLEY.....	Lawnkeeper
HENRY MARTZ .....	Watchman

### JANITORS

ARTHUR CHANTLER.....	University Hall
HENRY CHANTLER.....	Orton Hall
J. F. LONGMAN.....	Chemical Hall
JOHN H. BROWN.....	Hayes Hall
JOHN CONRAD.....	Horticultural Hall and Veterinary Hospital
D. D. GEREN.....	Gymnasium
WILLIAM WHITESTINE.....	Biological Hall
M. N. COOK.....	Townshend Hall



## UNIVERSITY ADDRESSES

- June 11th.....Baccalaureate Sermon, "Things Fundamental to Civilization"  
REV. HENRY W. HULBERT, Junior Pastor "The Old Stone Church," Cleveland, O.
- June 14th.....Commencement Address, "Real Life"  
PROFESSOR J. WILLIS GLEED, M. A., Topeka, Kansas

## FACULTY LECTURE COURSE

- January 7th....."Rise and Fall of Spanish Power"  
PROFESSOR EDWIN E. SPARKS, University of Chicago
- January 16th....."The Jew in History"  
RABBI DAVID KLEIN, Columbus
- January 23rd....."The Real, the Ideal, and the Romantic"  
PROFESSOR ALLEN C. BARROWS, Columbus
- January 30th....."The Ethics of the Spanish-American War"  
DR. WILLIAM H. SCOTT, Columbus
- February 20th....."Coal and How We Get It"  
PROFESSOR FRANK A. RAY, Columbus
- February 27th....."Deformities"  
DR. C. P. LINHART, Columbus
- March 6th....."Nature's Method of Distributing Plants"  
PROFESSOR WILLIAM R. LAZENBY, Columbus
- March 13th....."Expression an Important Factor in College Education"  
PROFESSOR ROBERT I. FULTON, Delaware

## DEPARTMENT LECTURES

### AMERICAN HISTORY AND POLITICAL SCIENCE

- April 25th....."The Work of the Ohio Municipal Code Commission"  
HON. EDWARD KIBLER, Newark, O.
- May 2d....."The Merit System and National Politics in Municipal Affairs"  
HON. D. F. PUGH, Columbus

### ECONOMICS

- October 6, 1898....."The General Office"  
J. T. BROOKS, Pittsburgh,  
Second Vice-President, Pennsylvania System
- November 16, 1898....."Crisis of '98 in India"  
IRA A. RICHARDS, Ex-Missionary to Southern India
- December 13, 1898....."Railway Promoting"  
F. L. PATRICK,  
President, Indianapolis & Southern R. R.

- January 12, 1899....."The Office of Railroad Commissioner"  
R. S. KAYLER, Columbus,  
Commissioner of Railroads and Telegraphs
- January 17, 1899....."The Express Business"  
J. T. CLARK, Columbus,  
General Agent, American Express Co.
- January 24, 1899....."Operation of Street Railways"  
W. F. KELLY, Columbus,  
General Superintendent, Columbus Street Railway Co.
- February 1, 1899....."Pluck — The Essential Factor of Success"  
W. I. CHAMBERLAIN,  
Associate Editor "Ohio Farmer," President Board of Trustees, O. S. U.
- February 28, 1899....."Bonded Indebtedness of Ohio State University"  
ALEXIS COPE,  
Secretary, Board of Trustees, O. S. U.
- March 18, 1899....."Practical Hints on the Labor Problem"  
JAMES KILBOURNE, Columbus,  
President, Kilbourne & Jacobs Manufacturing Co.
- March 21, 1899....."Relation of the Employee to the Company"  
E. E. CLARK, Cedar Rapids, Iowa,  
Grand Chief, Order of Railway Conductors
- April 4, 1899....."Life Insurance"  
HENRY BOHL, Columbus,  
Superintendent of Agencies, Prudential Insurance Co.
- April 11, 1899....."Building and Loan Associations"  
L. L. RANKIN, Columbus,  
Attorney, Buckeye State Building and Loan Association
- April 13, 1899....."The State's Relation to Corporations"  
FRANK S. MONNETT,  
Attorney-General
- April 18, 1899....."The Credit Men's Association of America"  
JOSEPH A. JEFFREY, Columbus,  
President, The Jeffrey Manufacturing Co.
- April 23, 25, 1899....."The Man Who Works"  
WASHINGTON GLADDEN, Columbus,  
Pastor, First Congregational Church
- May 2, 1899....."Fire Insurance"  
CYRUS WOODBURY, Columbus,  
Special Agent and Adjuster, Queen Insurance Co.
- May 9, 1899....."A, B, C, of Insurance"  
LEE DURSTINE,  
General Agent, New York Life Insurance Co.
- May 10, 1899....."Board of Trade"  
J. W. HOWARD,  
Assistant Secretary, Columbus Board of Trade
- May 16, 1899....."Municipal Indebtedness"  
W. F. BURDELL, Columbus,  
Member, Board of Sinking Fund Commissioners

LECTURES BEFORE SOCIETIES

ENGINEERS

- February 24, 1899.....“The Work of the Massachusetts Highways Commission”  
DR. T. C. MENDENHALL, Worcester, Mass.
- April 15, 1899.....“The Effect of Mechanical Draft on the Ultimate Efficiency of Steam Boilers”  
WALTER B. SNOW, Boston, Mass.

OHIO STATE ARCHÆOLOGICAL AND HISTORICAL SOCIETY

- April, 1899.....“Indian Trails of Ohio”  
ARCHER B. HULBERT, Hudson

# THE UNIVERSITY





# OHIO STATE UNIVERSITY

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## THE UNIVERSITY AND THE STATE.

Under an act of Congress passed July 2, 1862, the State of Ohio received from the United States a large grant of the public lands for the purpose of establishing a "college where the leading objects shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts, in such a manner as the legislatures of the states may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life." In accordance with this act, the Ohio State University was founded by the State as a public institution of learning. The governing body of the institution is a Board of Trustees, appointed by the Governor of the State for terms of seven years as provided in the law organizing the University. The original endowment has been supplemented, and the objects of the University promoted, by a permanent annual grant from the United States, under an act of 1890, by special appropriations of the General Assembly; and in 1891, by a permanent annual grant from the State, which grant was doubled by the Legislature of 1896. In accordance with the spirit of the law under which it is organized, the University aims to furnish ample facilities for education in the liberal and industrial arts, the sciences and the languages, and for thorough technical and professional study of agriculture, engineering in its various departments, veterinary medicine, pharmacy and law. Through the aid which has been received from the United States and from the State it is enabled to offer its privileges, with a slight charge for incidental expenses, to all persons of either sex who are qualified for admission.

## THE STATE SYSTEM OF EDUCATION

A State system of free, public education, worthy of the name, freely offers every opportunity and inducement to its entire school population to pass by systematic methods, easily apprehended by those who are to receive the benefits, in schools under popular control, from the lowest seat in the primary school to graduation by a university of high standing. It is not supposed that all pupils can or will accept these opportunities or respond to these inducements. But the highest welfare of the State demands that both opportunity and inducement shall be continually present, and that the broad and firm highway of sound training and of higher learning shall be opened freely to every child of the State.

The State system is naturally divided into three great sections. The first includes the rural or district schools, and the work done in the first eight grades of the city schools. To this is generally given the name of "the Grades." The second division includes the High Schools. The work of the third division is done by the University.

## THE UNIVERSITY

This means that the University is practically the thirteenth, fourteenth, fifteenth and sixteenth grades of this State system of free public education. Its work is related to that of the High Schools precisely as their work is related to that of "the Grades." It ought to be quite as natural for a pupil to look forward from the High School to work in the University, or its equivalent, as to look forward from "the Grades" or the Rural Schools to work in the High Schools.\*

## ORGANIZATION OF THE UNIVERSITY

The Ohio State University is divided into six colleges, as follows:

The College of Agriculture and Domestic Science consists of those departments represented in the course leading to the degrees of Bachelor of Science in Agriculture, Bachelor of Science in Horticulture and Forestry and Bachelor of Science in Domestic Economy; in the Short Course in Agriculture, in the Short Course in Domestic Economy, and in the Course in Dairying.

The College of Arts, Philosophy and Science consists of those departments represented in the courses leading to the degrees of Bachelor of Arts, Bachelor of Philosophy, and Bachelor of Science; and in the Courses Preparatory to Law and to Journalism, and to Medicine.

The College of Engineering consists of those departments represented in the courses leading to the degrees of Civil Engineer, Engineer of Mines, Engineer of Mines in Ceramics, Mechanical Engineer, Mechanical Engineer in Electrical Engineering, and Bachelor of Science in Industrial Arts, Bachelor of Science in Chemistry or in Metallurgy; in the Course in Architecture, in the Short Course in Clay-working and Ceramics, and in the Short Course in Mining.

The College of Law consists of those departments represented in the course leading to the degree of Bachelor of Laws.

The College of Pharmacy consists of those departments represented in the courses leading to the degree of Bachelor of Science in Pharmacy, and in the Short Course in Pharmacy.

The College of Veterinary Medicine consists of those departments represented in the course leading to the degree of Doctor of Veterinary Medicine, and to a certificate of Veterinary Surgeon.

Each college is under the direction of its own Faculty, which has power to act in all matters pertaining to the work of students in that college.

## LOCATION OF THE UNIVERSITY

The University is situated within the corporate limits of the City of Columbus, two miles north of the Union Depot and about three miles from the State Capitol. The University grounds consist of three hundred and thirty acres, bounded east and west by High street and the Olentangy river, respectively. The western portion, about 200 acres, is devoted to agricultural and horticultural purposes, and is under the management of the College of Agriculture and Domestic Science. The eastern portion is occupied by the principal University buildings, campus, athletic and drill grounds, a park-like meadow, and a few acres of primitive forest:

The grounds are laid out with care, ornamented with trees, shrubs and flower

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\*Of course this does not mean that there will be but one institution of the College or University grade in the state; but that there will be at least one such institution in the state, which shall be recognized as belonging to the state system of public education and as the natural and logical head of that system.

beds; and are so managed as to illustrate the instruction in Botany, Horticulture, Forestry, Landscape Gardening and Floriculture.

The University may be reached by either the North High street or the Neil avenue electric cars. Those wishing to go to the principal buildings of the University, to the residences on the grounds, or the Athletic field, should take a High street car going north. Those wishing to visit the Emerson McMillin Observatory, the Veterinary Hospital, Townsend Hall, Horticultural Hall and the Dormitories, will find the Neil avenue cars more convenient.

## BUILDINGS

UNIVERSITY HALL contains the Executive offices, the office of the Secretary of the Trustees, the assembly room (seating twelve hundred persons), four halls for literary societies, the Y. M. C. A. and King's Daughters' room, the Young Woman's League room and class rooms and laboratories for the departments of Economics, English Literature, German, Greek, History, Latin, Mathematics, Pedagogy, Political Science, Philosophy, Physics, Rhetoric and English Language, and Romance Languages. An electric passenger elevator connects all floors.

MECHANICAL HALL contains a room fitted up with cases for the care of models, instruments of precision, etc.; a room for instruction in laboratory mechanics and draughting, and laboratories with the engines, hydraulic plant, testing machines, etc.

BOTANICAL HALL has on the first floor the lecture room of the department of Botany. There are also an office, a store room, a dark room, and a private laboratory for Physiological Botany. On the second floor is the botanical museum, the main laboratory and the assistant's laboratory. Connected with this building is a large greenhouse and propagating house.

ELECTRICAL HALL devotes the first floor to the dynamo room. The floor of this room is of asphalt, laid on a solid concrete foundation. On the second floor are a lecture and draughting room, a photometric room, a library room, and office, stock and locker rooms.

CHEMICAL HALL is now occupied by the departments of Chemistry, Mining and Metallurgy and Pharmacy. The Department of Chemistry occupies the middle portion of the first floor and the middle and western portion of the second floor. The main lecture room has a seating capacity for one hundred and fifty students. The laboratory for introductory work and qualitative analysis has accommodation for two hundred and sixty-four students. There is also a special laboratory for qualitative analysis with accommodations for twenty-five students. The main quantitative laboratory accommodates fifty students. There is also an organic laboratory, a room for the preparation of experiments, a balcony accessible both from the lecture room and preparation room, a room for combustion work, a dark room for spectroscopic work, in addition to a number of smaller rooms used for private laboratories.

The departments of Mining and Metallurgy occupy the east end of the building. In the basement are the smelting furnaces, the assay laboratory, a room for rough work and store room for supplies. On the first floor is the lecture room of the professor of Metallurgy, with a seating capacity of forty; a laboratory with desks for sixteen students, a store room, a balance room, a private laboratory and an office. On the second floor is the lecture room of the associate professor of Mine Engineering, a draughting room, a room for instruments and an office.

The department of Pharmacy occupies the first floor and basement in the west end of the building, and has a lecture room provided for sixty students; a preparation room, a laboratory with desks for twenty-five students; a room for supplies, a balance room, a model drug store and a private laboratory.



ORTON HALL is designed for the permanent accomodation of the large geological collection of the University and for work and instruction in the department of Geology. A portion of it is occupied by the library and reading room. The building is two stories in height, with a high basement, is built of brick and faced with sandstone, and is fireproof throughout. At the right of the main entrance is the geological lecture room and professor's private room; at the left is the University library, reading room and librarian's private room. The central and rear portion is occupied by the geological and paleontological museums. The petrographical laboratory is located on the second floor. In the basement a room is used for work in geographical modeling, the finished models being afterward placed in the collection of such models in a room set apart for the purpose on the second floor. The basement accomodates also the museum of economic geology. A paleontological laboratory or working room is also provided on the second floor.

The greater part of the basement of Orton Hall is occupied as a laboratory by the department of Clay-working and Ceramics. This department is also accomodated with a large room on the first floor for recitation and exhibition purposes. In the rear of Orton Hall is a small brick structure used for the kilns of this department.

HAYES HALL is devoted to instruction in Industrial Arts, Drawing, Civil Engineering and Domestic Economy. On the first floor are two offices, the rooms of the department of Domestic Economy and two lecture rooms, the machine shop, the forge shop and the foundry. On the second floor are the carpenter and pattern shops and six large lecture rooms, with private rooms annexed.

The department of Drawing occupies the third floor for instruction in mechanical and free-hand drawing and photography.

HORTICULTURAL HALL contains recitation rooms and indoor laboratories of the department of Horticulture and Forestry. An extensive greenhouse is attached.

THE VETERINARY HOSPITAL contains on the first floor a veterinary museum and library, a dispensary and two private rooms for the persons in charge. On the second floor are a class room, a bacteriological laboratory and a microscopical laboratory. The rear extension contains an operating hall and a room provided with stalls, cages, etc., for the care of animals under treatment.

THE EMERSON McMILLIN OBSERVATORY is the gift of Mr. Emerson McMillin of New York. The first floor is divided by a hall and stairway into two parts. The east wing contains an office, library, clock room and a large well-lighted room for the students, furnished with tables, where they reduce their observations and keep the records of their work. The west wing contains the transit house, the dome and photographic dark room. The transit house is a light frame structure, so designed as to be kept as free as possible from heat radiated by any heavy walls of masonry. The dome is a wooden frame-work, covered on the outside with canvas. The rest of the building is of pressed brick, the foundation and second story being "rock-faced."

The equipment consists of a twelve-inch equatorial telescope, mounting by Messrs. Warner & Swasey, objective by Mr. Brashear, with a large and powerful spectroscope by Mr. Brashear. This instrument is adapted to use either one or two prisms or a grating, and is provided with a double set of objectives, one corrected for the visual and one for the photographic rays; a positive micrometer with a seven-inch circle by Messrs. Warner & Swasey; a combined zenith telescope and transit instrument of three inches clear aperture by Mr. G. N. Saegmüller; a sidereal clock by Clemens Riefler of Munich; a comparator by Carl Ziliss; a four inch portable equatorial by Alvan Clark; a chronograph by Warner & Swasey; sextants, chronometers, meteorological instrument, etc. In addition to the above, Mr. McMillin's gift provides for an excellent astronomical library.

TOWNSEND HALL is devoted exclusively to the instruction given in the College of Agriculture.

On the left of the entrance is the office of the department of Agriculture and a private office, a stenographer's room and fireproof vault. Connected with the office on the south is an assistant's room, opening into a laboratory for advanced students. At the extreme south end of this floor is a large laboratory for student-work in soils and farm crops. Connected with this laboratory is a balance room, a store room and an instructor's laboratory. On the west side of the main corridor, and connected with the instructor's room, is a large class room opening into a preparation room with a dark room. This class room is fitted with all appliances for showing lantern slides of livestock, buildings, machinery, etc. On the same side of the corridor, and on the right of the stairway leading to the basement and second floor, are the class room and instructor's room for dairying. On the right of the main entrance is the department reading room. The north end of this floor is occupied by the museum with an attendant's room.

The north end of the high basement is occupied by the dairy department. This consists of a receiving room, a pasteurizing room, a store room, a refrigerator room, a lavatory, butter-making room, cheese-making room, two cheese-curing rooms and an instructor's room.

In the south end of the basement is a livestock room about forty feet square. One third of this room is occupied by raised seats, the remaining floor space being used for exhibiting and judging livestock. Connected with this is a room fitted with stalls for the temporary accommodation of livestock when needed for class exercises. The basement also contains soil storage room, bath room, toilet rooms, repair shop, locker rooms, bicycle room and janitor's room. A small detached building will furnish steam and power for the dairy department. Detached from the main building, but connected with the soil storage room by a tramway, is a glass house for the study of soils and the experimental growth of plants.

The north end of the second story contains a large student laboratory for the department of Agricultural Chemistry, connected with an organic and analysis laboratory, a balance room, a store room and a private laboratory. The lecture room of this department is at the south end of this floor and will seat one hundred and sixty students on raised seats, with a preparation room adjoining. There is also on this floor a class room connecting with preparation room, store room and instructor's room, which is used (temporarily) by the department of Veterinary Medicine. There is also an extra class room, ladies' toilet and locker rooms and a hall for the use of the Townsend Society, designed to seat about two hundred persons.

BIOLOGICAL HALL is designed for the special accommodation of the departments of Entomology, Zoology, Anatomy and Physiology, and is fully equipped with all the latest and best apparatus for this work. It consists of a basement, in which is done all the work of preparation of subjects for the lecture tables and for the special laboratory work for the advanced students; the first floor, on which are lecture rooms, general and special laboratories, and private work rooms for the professor of Entomology and Zoology and his assistants; the second floor, similarly arranged for the work in Anatomy and Physiology; and a large wing, in which is the museum and a large lecture room. The building is fireproof throughout, and in design and general appearance is one of the most attractive on the campus.

THE GYMNASIUM AND ARMORY was first occupied in January, 1898. The drill hall and gymnasium floor is eighty feet wide by one hundred and fifty feet long. The roof is carried on curved steel arches, lighted from a clear story at the top. There is a running track around the entire room about twelve feet from the floor, back of which is a visitor's gallery seating about seven hundred persons. At the

northwest corner of the floor is a stairway leading down to the men's locker and dressing room, while the young women go down a similar way at the southeast corner to their rooms. On the level with the main floor, near the main entrance at the south, is a large room for the use of the Commandant and his classes and rooms for the Director of the Gymnasium. Above the Commandant's room is the room for the officers of the University Cadet Corps.

The basement is very high and well lighted. On the young men's side are dressing and locker rooms, the bath room with shower and plunge baths, a bicycle room, a lecture room, the cannon room, the band room, and a large room which is to be the home of the University Athletic Association. On the young women's side are the locker rooms and bath rooms — precisely like those provided for the young men — a bicycle room, lecture room and private office for the instruction in sanitation and hygiene for young women.

THE NORTH DORMITORY is situated at the northern limit of Neil avenue, and fronts Eleventh avenue. It is at the terminus of the Neil avenue electric car line. It is a plain structure of brick, and affords accommodation for sixty-four students.

THE SOUTH DORMITORY stands near Neil avenue within a few rods of the North Dormitory. It is also built of brick, and contains rooms for twenty students.

RESIDENCES. There are seven dwelling houses upon the University campus. Five of these are brick and two are frame structures. One is occupied by the President of the University, five by professors, and the seventh is the farm house.

## LABORATORIES AND EQUIPMENT

### AGRICULTURE

The equipment of this Department may be divided along three general lines: the plant, the museum and the illustrative materials.

THE PLANT. This consists of a farm of about two hundred acres, a general farm barn, a horse barn, and several smaller buildings. The farm lies along the Olentangy river, and includes both first and second bottom land. On this farm are grown general farm crops in the rotation deemed best suited to the circumstances of the Department. At present a few experiments are conducted, the general idea being to conduct such experiments as will have the largest instructional value to the students who attend the College of Agriculture. The Ohio Agricultural Experiment Station continues to conduct here the elaborate fertilizer experiments with wheat, corn and oats, which it has been making on this farm during the past five years. Different species and varieties of farm crops are grown to some extent for the purpose of class illustration and instruction, and it is expected to enlarge this feature.

Specimens of the draft, coach and roadster type of horses are kept and used in the farm work. The Department manages a milk dairy; having a herd of about forty cows, composed of pure bred and grade Jerseys and shorthorns.

The general farm barn contains a well arranged stable for forty cows, with underground drainage and sewage cistern, a milk cooling room, a silo, a root cellar, a work-shop, with room for hay, grain and other foodstuffs.

THE MUSEUM. This contains a large number of samples of farm products in various forms and their by-products, such as soils, grains, grasses, wools, cotton, forage plants and foodstuff. Milling and other processes are illustrated by samples of the various products of manufacture.

The museum contains Auzoux models, samples of tools and a considerable miscellaneous collection. The collections are intended primarily for student use and not for display.



**ILLUSTRATIVE MATERIALS.** These consist of charts, pictures and lantern slides showing results of experiments, representative and noted specimens of livestock, farm machinery, fences, buildings, etc. The Department has and uses constantly in the class room a Beseler double oxygen-ether stereopticon. The collection of several hundred lantern slides for this purpose is constantly receiving additions.

**THE AGRICULTURAL LIBRARY.** While not considered as belonging specifically to this Department, there is in the general library a fairly good collection of books and periodicals devoted to agriculture, a large use of which is required of the student.

**THE LABORATORY OF SOIL PHYSICS** is located on the second floor of Horticultural Hall, and is supplied with apparatus for the mechanical analysis of soils and for testing their physical properties. (See also BUILDINGS — *Townshend Hall*.)

#### ARCHITECTURE

This work is carried on in connection with the Department of Drawing. The facilities for this work consist of a large, well-lighted drawing-room for the designing and drawing part of the work, a recitation room specially fitted with stereopticon lantern to illustrate the lectures, several hundred lantern slides of typical specimens of architecture from all parts of the world, a collection of scale design drawings, a collection of specifications of buildings that have been erected, a collection of plaster ornaments used in architectural decoration and a well selected collection of useful books in the library. The City contains many buildings of interest to the architectural student, both in a completed state and in process of erection.

#### BOTANY

The general Botanical Laboratory occupies part of the second floor of Botanical Hall. It is 23 x 33 feet, and is furnished with both movable and fixed tables. The latter are attached to the west and south walls near windows suitably shaded. Water, gas and an evaporating hood are also provided. The laboratory is equipped with compound microscopes of the Baush and Lomb, the Leitz and other patterns; and accompanying each is a tray of tools and a case of reagents. There are more than fifty dissecting microscopes, also charts, and several minor pieces of apparatus for experiments in vegetable physiology. Three smaller rooms are also provided as laboratories for special work, as well as a dark room for photography. Other facilities for the illustration of the courses in botany, and for practical training in the same, are: A general herbarium, including flowering plants, ferns, mosses, fungi and algae; a state herbarium, a collection of fruits and seeds, valuable timbers, woods, grasses and various economic products of the vegetable kingdom; ornamental grounds and woodland, planted with a large variety of evergreen and deciduous trees and shrubs; and a greenhouse with a fair collection of native and exotic plants. (See also MUSEUM — *The Botanical Museum*; and BUILDINGS — *Botanical Hall*.)

#### CHEMISTRY

The laboratories of the department accommodate from three to four hundred students. Each laboratory is equipped with all the necessary conveniences as water, gas, electric lights, distilled water piped from a large still in the attic, air blasts, suction pumps, etc. The department is generally supplied with the best apparatus and materials for both lecture and laboratory work. Each student procures the apparatus necessary for his work from the store room which has always on hand a complete stock of all necessary materials. (See also BUILDINGS — *Chemical Hall*.)



## CIVIL ENGINEERING

The facilities provided for the illustration of the courses in civil engineering and for practical training are as follows: One high grade and three ordinary transits, four leveling instruments, solar compass, prismatic compass, improved telescope compass, Abney hand level, level and stadia rods, sight poles, chains, tapes; twenty-six improved drawing tables with 30" by 36" top; Schroeder's models in stereotomy of roof trusses; large set of models of wooden joints; collection of photographs of bridges, both when finished and in course of erection; collections of strain sheets and shop drawings of bridges; new improved cement testing machines and outfit for making all kinds of cement tests; stone mason tools for working models out of plaster blocks; magic lanterns and slides; collections of samples of building materials; calculating machines; sets of drawing instruments; blue print room with outfit; set of tracings of standard structures from which each student may make a set of blue prints. The equipment is growing each year by the addition of materials purchased, presented, or made by students of the Department.

## CLAY-WORKING AND CERAMICS

The University is the first, and at this time the only institution in the United States offering special facilities for the study of clays, clay-working, and the chemical technology of the ceramic art. The facilities of the Department comprise: 1st. A convenient chemical laboratory, specially designed and equipped for the analysis and decomposition of silicates. Provision has been made for the use of hydrofluoric acid with safety, and the platinum ware has been made to order with this purpose in view. 2d. A complete mechanical outfit for the preparation of clays for pottery manufacture and the production of the ware itself, of any grade from earthen wares to porcelain. The machinery is of the latest type and comprises all important varieties in use for grinding, tempering, washing, filtering and molding. 3d. A similar plant for the manufacture of brick, tiles, pipes and hollow goods. The machinery here is of full size and samples up to a ton in weight can be received and transformed into the finished articles by any or all of the standard methods in commercial use. The power for this purpose is derived from a fine electric motor, driven from the University power plant. 4th. A kiln house, equipped with a kiln in which several hundred bricks, or an equivalent quantity of sewer-pipe, stoneware, or pottery can be burnt. The fuel is intended to be coke, except in special cases where the fuel available for burning clay wares is to be made the subject of test. There is also provided a crucible melting furnace and a muffle furnace of testing glazes. A muffle kiln of large size for burning pottery, glazed ware and decorated wares has recently been put into operation. 5th. A ceramic museum, containing a fine collection of American pottery and clay products of every class, is in process of installation. 6th. A library of the best literature on the subject, mainly German but containing a few English and French works, and the trade periodicals. (See also BUILDINGS — *Orton Hall*.)

## DOMESTIC ECONOMY

The Department of Domestic Economy (for young women) will secure for the course all that experience and observation may suggest. At present it has a large kitchen, with dining room adjoining, each fitted with the latest and best appliances for the work undertaken. About a thousand dollars has been expended to make this department entirely practical, and to permit its instruction to be as thorough and as scientific as that of any other department in the University.

## DRAWING

The Department occupies the entire third floor and one room in the basement of Hayes Hall, and is provided with the following equipment for the illustration of the work in drawing and for the practical training in same:

For freehand drawing, water color and oil painting:—A large studio thirty-five by eighty feet, specially arranged and provided with adjustable tilting tables and easels, a well selected collection of pencil, pen and ink, charcoal and color specimens of work, wooden models of geometric forms, plaster-casts of ornaments, flowers, fruit and the antique.

For clay-modeling:—A specially arranged and equipped studio twenty-six by thirty-two feet for modeling in clay and casting in plaster, consisting of modeling stands, moisture box, casting table, modeling tools of wood and steel, stove and vent-hood for the preparation of gelatine molds and lockers.

For mechanical drawing and mechanical and architectural designing:—A large, well lighted room forty by eighty-five feet, provided with O. S. U. drawing tables (30" by 36" tops), a set of Schroeder models, a collection of shop drawings and facilities for blue-printing.

For photography:—A well arranged and equipped dark-room, printing apparatus, copying camera, six view cameras, lenses of long and short focus, tele-photographic lens, shutters for instantaneous exposures and an excellent outfit for photo-micrography.

In addition to the above, the library contains a well selected collection of books pertaining to the work of the Departments. (See also BUILDINGS—*Hayes Hall*.)

## ECONOMICS AND SOCIOLOGY

The University, through the efforts and generosity of its friends, is possessed of a unique equipment for study purposes in these lines. This equipment comprises a large collection of railroad, municipal and school bonds; of stocks of all kinds; of letters of credit, drafts, foreign bills of exchange, bills of lading, checks, enclosures, statements, insurance policies, trust certificates, notes, mortgages and all the necessary forms of business paper; also collections of coins illustrative of various periods in our monetary history, foreign coins, and scrip; also sets of maps and charts and a Kiepert-Commercial Globe 80 cent. in diameter. Ample facilities for statistical work are provided and a seminary room set apart for the use of laboratory material, documents, etc., is always open to advanced students. It is the policy of the Department to make the statistical investigations and research work of advanced students contributory to the permanent equipment of the Department, thus enriching the facilities from year to year with material of scientific and pedagogical value.

## ELECTRICAL ENGINEERING

The Electrical Laboratory affords very good facilities for practical experimental work with dynamo machinery and other electrical apparatus. The dynamo equipment consists of twenty-five machines of various makes and sizes from 40 H. P. down; aggregating over 200 horse power. These include direct and alternating current generators, polyphase motors, arc and incandescent lighting generators, railway and stationary motors and unipolar dynamo. The latter, with an alternating current generator and a 2-phase motor, were built by the students; it being the policy of the Department to build as much of its apparatus as possible. There are also a number of transformers of different makes, including one for welding,—

built at the University. Arc lamps of different styles, a 10-kilowatt-hour storage battery, condensers and resistances, and magnetic testing apparatus also form part of the equipment. The list of measuring instruments is quite complete, and includes a standard Weston voltmeter and eleven other Weston volt and am-meters, also four Kelvin static voltmeters, five dynamo-meters, one watt-meter, three galvanometers and a dozen other am-meters and voltmeters of different makes. A telephone laboratory — with apparatus for comparative tests, a variety of transmitters and receivers, and lines running to another building, has been in use for two years. Photometry is given at present in the Physical Laboratory, where the equipment in this line is excellent. Power for running the dynamo laboratory is supplied by three induction motors from the University Power Plant. This latter is a model 2-phase plant, and the electrical part of it has been for the most part installed by the students of the Department. The repair and maintenance of this plant is done by the students, who receive compensation for the time so spent.

#### GEOLOGY

The University is able to present unusual advantages for the study of Geology. By an act of the Legislature it has been put in possession of all the collections made by the late Geological Survey, and these collections have been supplemented by valuable additions of fossils and minerals from various sources. The State collection embraces a very complete representation of every geological formation shown in Ohio. In its new and ample quarters the Department offers exceptionally good opportunities for work in the lithological, petrographical and modeling laboratories. (See also MUSEUMS—*The Geological Museum*; and BUILDINGS—*Orton Hall*.)

#### HORTICULTURE AND FORESTRY

Among the facilities provided for the illustration of the courses in horticulture, and for practical training in the same, are: (1) a collection of horticultural tools for budding, grafting, pruning, etc.; (2) an orchard, containing well-selected varieties of the apple, pear, cherry, plum and quince; (3) a small vineyard, containing numerous varieties of the grape; (4) a garden of small fruits, containing all the best varieties of the strawberry, raspberry, blackberry, current and gooseberry; (5) a vegetable garden, with forcing houses, cold frames, experimental plats, conveniences for irrigation, etc.; (6) small nursery and forest tree plantations, with practice rows of budding, grafting, pruning and training; (7) ornamental grounds and woodland, planted with a large variety of evergreen and deciduous trees and shrubs; (8) a greenhouse, with a fair collection of native and exotic plants; (9) a collection of preserved natural specimens, and models of fruits, seeds, woods, etc.; (10) a laboratory fairly well equipped with balances, charts and other appliances for study and research. (See also MUSEUMS—*The Botanical Museum*; and BUILDINGS—*Horticultural Hall*.)

#### MECHANICAL ENGINEERING

The greater portion of Mechanical Hall is devoted to laboratory purposes. The south laboratory is used for applied mechanics and for gas engineering. Here are located the machines for testing the strength and elasticity of engineering materials, and recording their physical properties automatically and autographically. Oils are tested as illuminants and as lubricants. Belts and pulleys are tested for their slippage, friction and horse-power transmitted. The gas engine plant has three engines, representing gas and gasoline, three methods



of ignition, and fly ball and inertia governors. The air is supplied by a fan through a large meter. Temperatures and pressures of air, gas and water are measured. The fresh and burnt gases are analyzed and their heating values determined by a calorimeter. The power is measured at both the indicator and the brake. The laboratory machine shop and tool room are in this room.

The north laboratory is used as a steam engineering and hydraulic laboratory. Four 35-horse-power engines give facilities for testing single or duplex condensing or non-condensing, simple or compound, throttling or automatic cut-off engines, using either a jet or a surface condenser. Pressure and vacuum gauges are calibrated. Indicator springs of five makers are tested either cold or hot. Five kinds of calorimeters determine the moisture in steam before and after passing three different separators. Injectors are tested for lift, quantity, pressure and steam consumption. Steam pumps of six makes, ranging to 800 gallons per minute capacity; two centrifugal and a rotary pump, enable tests of pumps to be made and deliver water at pressures below 150 pounds to two stand-pipes, which in turn supply turbine and cascade, and Pelton water wheels, and enable experiments to be made on the flow of water through orifices, pipes, valves, etc. Three cisterns, provided with a variety of weirs up to five feet wide, give practice in measuring flowing water. A Venturi meter and a Pitot tube are also used. Ericsson and Rider hot air engines are tested. A Rife hydraulic engine, a Humphryes ram, Gem and Eureka water motors, and a pulsometer, are included in the hydraulic apparatus, all of which are connected and prepared for complete tests.

A complete set of Westinghouse air-brake apparatus, a blower and a ventilating fan, enable experiments to be performed in the flow of air. They are supplemented by tests of the heating and ventilating plants in the buildings of the campus.

In addition to the apparatus and equipment of the power plant of the University the power house at Townshend Hall contains a horizontal, return tubular boiler, two steam engines and an ammonia refrigerating machine, making the facilities on the campus for testing quite complete. Machinery, apparatus and appliances are continually being presented, built or purchased, and the student is given an opportunity to test everything under practical conditions of operation. Besides the laboratory facilities, opportunities frequently arise to test machinery, engines or boilers in the city, and in these tests the students take part.

#### METALLURGY

The metallurgical laboratory has all the appliances for the most modern methods of technical analysis as practiced in iron and steel laboratories, including gas analysis. A furnace room in the basement is fitted for gold and silver assaying, with improved muffle and crucible furnaces.

The lecture room in metallurgy has arrangements for projecting photographs of machines, mines and furnaces, for class illustration, and there is a large collection of such views. There is a photographic room with blue-printing facilities, where students learn to make copies of the drawings used in illustrating the lectures.

A collection of minerals and rocks with a large set of rock sections is provided for illustrating the mineralogy, as well as sets of blow-pipe apparatus for the students in determinative mineralogy. (See also BUILDINGS — *Chemical Hall*; and MUSEUMS — *The Geological Museum*.)

#### MINE ENGINEERING

The Department is equipped with all of the latest improved instruments and apparatus used in mine engineering, surveying and the study of mine ventilation.



There is a collection of models of mine machinery and supplies, to which additions are being made which are valuable as illustrations. The draughting room is large, well lighted and provided with a desk for each student, where he is personally taught map making and the platting of actual surface and underground surveys; the making of tracings of drawings and how to make blue-prints. He is also taught proper methods of keeping notes and all records necessary to an efficient engineer's office. The students are given practical experience by making actual surveys of coal mines and in working up their notes complete in all of the necessary details. The students are also taught how to make working drawings, plans, estimates and specifications of mining operations and equipment.

The lecture room has arrangements for projecting photographs of machines, mines and mine equipment, for class illustration, and there is a collection of such views. Also photographic room with blue-printing facilities, where students learn to make copies of the drawings made by themselves and those used in illustrating the lectures.

#### PHARMACY

The facilities provided for illustration of this work and for practical training are as follows: The apartments assigned to this work occupy the west end of the Chemical Hall, first floor and basement. The lecture room will accommodate sixty students, and is provided with a large lecture table and supplied with gas and water, and other conveniences for experiment. About the walls are arranged cases in which are exhibited rare and costly chemicals, curious drugs, and high-grade pharmaceuticals. Adjoining this room is the preparation room and storeroom, where the supplies and apparatus and material are kept, and where the apparatus for experiment and illustration before classes is prepared. Also adjoining this room is the professor's private laboratory. The main laboratory has desks for thirty-five students, each one provided with gas and water, and sufficient storage space for material and apparatus. The laboratory is furnished with apparatus for distilling, and reclaiming, with mills, balances, drying closets, steam vaporizers, hoods and other special apparatus for pharmaceutical work. Opening into the laboratory is the drug store. This drug store is complete, and is in itself a cabinet of official drugs, and all preparations thereof. It is provided with a prescription desk and all apparatus adapted for training in prescription work. Adjoining the laboratory is the reading room, where are kept the various pharmaceutical journals, the dispensaries, and many books of reference. Also adjoining the main laboratory is the balance room, which is well provided with analytical balances, specific gravity balances and microscope, all of which are intended for higher pharmaceutical work.

In the reading room is also a cabinet of crude drugs, which have been classified and numbered but bear no name. This cabinet is adapted to the study of pharmacognosy.

In addition to the foregoing equipment, the Department is possessed of an extensive range of apparatus, by means of which any branch of work in pharmacy can be successfully pursued. The Department is complete in all its details, and affords unexcelled opportunity for the study of pharmacy. (See also BUILDINGS—*Chemical Hall.*)

#### PHYSICS

The Department has an excellent equipment of apparatus, to which additions are constantly being made. The apparatus includes a large collection of pieces for illustration of the general lecture room work, but is principally chosen for accurate measurements in the laboratory. A set of standards of length, capacity and

mass, sent under the act of Congress supplying such sets to the several agricultural colleges, is in the possession of the Department. The pieces are copies of the United States standards made by the Coast Survey at Washington.

Among the principal pieces of apparatus are a dividing machine by Fauth & Co.; chronometers by Parkinson & Frodsham and by Negus, the latter a break-circuit; a chronograph by Fauth & Co.; a Hipp's chronoscope; cathetometers by Salleron and by the Geneva Society, the latter an exceptionally fine instrument; Regnault's apparatus for vapor tension, for expansion of gases and for specific heat Melloni-Tyndall apparatus for radiant heat; standard thermometers by Baudin and others; Rutherford and Rowland, diffraction gratings; Rowland's spectrum photographs; spectroscopes by Brashear, Browning, Apps and others; Salleron's complete apparatus for projections in polarized light; lanterns for projections by the lime light and the arc light; a variety of sound apparatus from Koenig; portable and quadrant electrometers; Kelvin galvanometers of high and low resistance; Weidemann, Kohlrausch and other galvanometers; standard resistance coils, with Cavendish laboratory certificate; several sets of resistance coils and bridges; a Kew magnetometer; Kelvin standard balances; Weston ammeters and voltmeters; standards of self-induction; standard battery cells; photometric standards and photometers; X-ray apparatus, etc.

Under the laws of Ohio, the professor of physics is *ex officio* State Sealer of Weights and Measures, and all of the standard weights, measures and balances received from the United States government are in the rooms of the Department.

#### PHYSIOLOGY

The facilities provided for the study of anatomy, bacteriology, histology and physiology are excellent. The laboratory is supplied with skeletons, papier-mache manikin, and many models, including models of the eye, ear, larynx, etc. The apparatus of the Department for work in bacteriology and physiology is of the best and most approved construction, and is adapted to the accurate investigation of bacterial forms, as well as to the thorough performance of the fundamental physiological experiments. Myographs, spectroscopes, microscopes and the necessary chemical outfit are also provided. For work in histology the equipment includes twenty-four individual tables for student experiments, each table being supplied with a good microscope, microscopical accessories, microscopical reagents; and for advanced work, the needed apparatus for instruction in the various methods of hardening, staining, imbedding, section-cutting and injection. The laboratory also has excellent microtomes, imbedding baths and other essentials of a histological outfit. The equipment of the laboratory makes it possible to offer a large range of work for the choice of students in advanced courses. (See also BUILDINGS—*Biological Hall*.)

#### PSYCHOLOGY AND EDUCATION

The psychological laboratory occupies three rooms on the fourth floor of University Hall and is reasonably well equipped for work in physiological and experimental psychology and for research in related educational lines. For the study of motor processes and development the most improved form of ergograph with complete sets of myographic, chronographic, dynamometric and pneumatic recording appliances, has been provided. A complete outfit of apparatus for the study of sensation, memory and association make it possible for students of education to acquire methods of exact observation of the various mental and motor processes involved in school work. Provision has also been made for work in comparative psychology.

## SHOPWORK

The shops, which occupy the north wing of Hayes Hall, afford excellent facilities for instruction in both the practical details and the underlying principles of carpentry, pattern-making, forging, moulding, foundry work and machine work.

The carpenter and pattern shop is equipped with twenty-five benches with complete sets of carpenter tools for each and a large number of special tools for general use, twenty-three pattern-makers' turning lathes with cupboards containing the necessary turning and pattern-making tools under each, a pony planer, a buzz-planer, a circular rip and cross-cut saw, a scroll saw, a trimmer and a power grindstone.

The forge shop is equipped with twenty stationary forges with anvils and tools for each, a heating forge, a portable hand forge, a foot-power hammer, a blacksmith's drill and a punch, shear and bar cutter. The blast for the forges is furnished through underground piping by a 45" Buffalo pressure blower, and the smoke is removed by a 55" Buffalo exhaust fan overhead. Both of these fans are driven by a 15-horse-power electric motor.

The foundry is equipped with a 24" Calliau cupola, the blast for which is furnished by a 30" Buffalo blower; two brass furnaces, one 16 inches in diameter and the other 20 inches in diameter; a core oven, benches for iron and brass moulding, core making and cleaning of castings, a space for floor moulding 30 feet by 40 feet, besides all the necessary moulding tools, flasks, crucibles, ladles, tongs, etc.

The machine shop is driven by a 30 horse power electric motor from above, and is equipped with the following tools: Twenty-eight benches for vise work with complete sets of tools, eight speed lathes, sixteen engine lathes, two planers, two shapers, a milling machine, an upright drill, a sensitive drill, grinding machines for both plane and cylindrical surfaces, tool grinders, emery wheels, etc. This machinery is furnished with all the necessary tools, and the tool room is equipped with full sets of drills, taps, dies, milling cutters, standard plugs, gauges, threads, etc., micrometers and a great variety of special tools. (See also BUILDINGS — *Hayes Hall*.)

## VETERINARY MEDICINE

The Veterinary Hospital affords excellent facilities for the treatment and care of animal patients, and also gives the students the opportunity to become practically familiar with the diseases to which our domesticated animals are subject. It contains box stalls, stalls for cold water applications, a large and well lighted operating hall and a special ward for dogs. The front part of the Hospital contains a lecture room, a museum of anatomical and pathological preparations, a drug dispensary and an office. In the museum are skeletons of the horse and ox, a complete manikin of the horse, papier-mache models of various anatomical parts, pathological specimens preserved in alcohol, etc.

In the library are choice collections of works in veterinary medicine and allied sciences and also copies of the leading veterinary periodicals.

The College is well equipped for surgical work. Instruments of the latest and most approved makes are kept in the instrument room for use in operations.

In the daily clinics not only are horses and dogs represented, but also the meat-producing animals from the farm, near the College.

The bacteriological laboratory in the biological department is supplied with apparatus of the most modern and improved construction, the microscopic appliances being adapted to the most accurate work in bacteriology. (See also BUILDINGS — *The Veterinary Hospital, Biological Hall*.)



## ZOOLOGY AND ENTOMOLOGY

The outfit of the Department is ample, consisting of general zoological collections, an entomological collection, a series of skeletons, alcoholic specimens, and all needed instruments. (See also MUSEUMS — *The Zoological Museum, The Lake Laboratory, Biological Hall.*)

## THE LAKE LABORATORY

There has been established at Sandusky a summer laboratory for the purpose of investigations of the biological problems of the great lakes. It is located at the present site of the State Fish Hatchery in the east bay of Sandusky and is supplied with abundant aquaria, tables, boat and during the summer (June 15-September 15) is equipped with the necessary apparatus for general work. The site has been chosen with special reference to its convenience, the sheltered waters of the bay, proximity of fish packing establishments, ready access to islands and open lake and remarkably abundant forms of life available. It affords a rare opportunity for instructors and students to spend the summer vacation at practical biology in a most agreeable and profitable way. The facilities are offered free to students of any branch of biology but each investigator is expected to provide his own microscope and special apparatus for his own investigation unless otherwise arranged.

## THE MUSEUMS

THE GEOLOGICAL MUSEUM of the University has been collected and arranged with reference to instruction rather than to display. The basis of it is a large and comprehensive collection of the rocks, fossils and economic minerals of Ohio. The collection embraces the following named series:

(a.) An excellent representation of the leading divisions of the geological scale of the State, so far as it can be illustrated by rock specimens. The specimens represent the leading phases of each formation, and in many cases carry the characteristic fossils of the horizons from which they are derived.

(b.) A collection of the animal and vegetable fossils of the rocks of Ohio. This series includes a large majority of the described fossils of our formation, and in the number are many type specimens. While all the ages of our geological history are well represented, the collection of the Upper Silurian and Devonian animal fossils is particularly rich and complete. A remarkably fine series of coal plants is also included in the museum. The list of fossils has been greatly extended in the number of species and individuals by the recent purchase of the collection of Mr. Henry Moores, of Columbus.

(c.) The economic minerals of the State are also shown to excellent advantage in the museum. The coals, petroleum, iron ores, clay and building stones produced in Ohio are represented in large collections. Many of the specimens upon which chemical examinations or physical tests have been based in the work of the geological survey of the State are included here.

(d.) Petrographical collections: These collections were selected with a view to their use in petrographical instruction, and embrace the Hawes collection, the Krantz collection and the Rosenbusch complete series of typical rock specimens from important centers abroad. These hand specimens are supplemented by two series of thin sections, including Voigt and Hochgesang's collections of typical rocks and of the petrographically important minerals.

In addition to the collections above described, the museum contains a great deal of valuable material in the line of general geology and mineralogy. Among



other things it includes several valuable suites of ores and many fine mineral specimens.

There also belong to the museum a number of geological casts, models and maps. In this series are included a relief map of the State of Ohio, and also the models of the basins of the Atlantic ocean and Caribbean sea, prepared under the supervision of the United States Coast and Geodetic Survey.

The catalogue of the museum contains more than 10,000 entries; but as only one number is as a rule given to a fossil or a mineral species, the individual specimens make an aggregate list of many thousands in addition to the catalogue list, and probably double this list.

The skeleton of a mastodon, one of the extinct elephants of Ohio, has recently been presented to the museum by N. S. Conway, of Catawba, O., on whose farm it was found. It has been mounted by Prof. H. A. Ward, of Rochester, N. Y., and proves to be one of the largest in the country.

The museum also has a mounted skeleton of *Megalonyx Jeffersonii*, one of the great ground sloths. This specimen has the distinction of being the first and thus far the only mounted skeleton of this animal in the world. The bones were discovered by Abraham Drushell and others in a swamp in Berlin township, in Holmes county, O., in 1890. They were mounted in Ward's Natural Science Establishment, Rochester, N. Y. The entire outlay involved in the purchase of the bones and in mounting them was borne by Mr. Emerson McMillin, of New York.

THE ZOOLOGICAL MUSEUM is located on the ground floor of the wing of Biological Hall. The foundations of a zoological museum have been laid and the work begun on a generous plan. Every effort is being made to secure and preserve excellent specimens in all groups of animals. Not only the adult animals are preserved but the preparatory stages as well, their work and architecture, in fact all that can illustrate the life-history and habits.

Among special features are the Wheaton collection of birds of Ohio, numbering about 1,000 skins; a collection of North American birds about 1,500 skins representing very fully the North American fauna; a number of fine specimens of larger mammals, moose, hippopotamus, deer, tiger, peccary, lion, tapir, etc., most of which have been generously donated by Sells Brothers; a collection of about 3,500 molluscan shells; a fine series of Ohio fishes; numerous reptiles, amphibians, etc.

There is an excellent series of skeletons, crania and alcoholic material for courses in comparative anatomy.

The collection of insects is being rapidly enlarged and the purchase of the Kellicott collection of Odonata makes it especially rich in that order.

Professor Osborne's private collection of Hemiptere is deposited in the Department and available to students for comparison and study.

THE BOTANICAL MUSEUM occupies the second floor of Botanical Hall. It contains the University herbariums, both general and state, also Professor Kellerman's private herbarium of over 20,000 specimens deposited for use in the Botanical Department; a complete collection of the native woods of Ohio; a collection of the seeds and fruits of plants; a collection of native medicinal plants; a general collection of vegetable products, including seeds, textile fibers, coloring substances, etc., illustrating economic or applied botany.

THE AGRICULTURAL MUSEUM. For a description of this museum, see BUILDINGS — *Townshend Hall*.

THE ANATOMICAL AND PATHOLOGICAL MUSEUM. For a description of this museum, see Laboratories and Equipment, Veterinary Medicine.

THE MUSEUM OF CLAY-WORKING AND CERAMICS is now in process of formation. Some excellent specimens of ceramic products have already been collected, and efforts are being made to increase the collection.

ARCHÆOLOGIC COLLECTION. Orton Hall now contains the second best archæologic exhibit in the Ohio Valley; the total number of specimens owned by the Ohio State University, the Ohio State Historical and Archæological Society and by private individuals, amounting to 46,200. Although the Museum is but three years old, it has shown a remarkable growth.

Field work has been carried on in the various parts of the State during the summers of 1894, 1895 and 1896, and as a result the contents of more than eighty mounds, graves and village sites are now on exhibition. The chief exhibits, illustrating the life of ancient tribes are from Fort Ancient in Warren county, from the mound graves of the lower Scioto and from the Muskingum Valley. It is considered that in Ross county aboriginal culture reaches its highest development in the whole Ohio Valley. This fact is well attested by the presence of numerous copper objects, effigy pipes, fine ornaments and ceremonials, pottery, delicate work in polished stone and flint implements, etc.

The collection from the valley of Brush Creek and along the Ohio itself, and from the hill regions of Ohio, show a much lower grade of culture. Careful comparison of the work of man from these localities is exceedingly interesting.

There is an exhibit from Flint Ridge, illustrating the manufacture of arrow and spear heads. The Museum contains nearly 150 specimens of pottery from Missouri and Arkansas, many of which are effigies of animal, bird and human form.

The founders of the Archæologic Museum are arousing public interest in the preservation and study of Ohio antiquities; and by means of exchanges, lectures and personal solicitation, the growth of the collection is considerable.

## LIBRARIES

### THE UNIVERSITY LIBRARY

The University Library is located in the east end of Orton Hall. The system of department libraries prevails to a limited extent, small collections of books specially needed in connection with laboratory and class room work being deposited in several departments.

During term time the Library is open six days in the week, legal holidays being excepted. From Monday until Friday the hours are from 7:30 A. M. until 9:30 P. M.; Saturday from 8 A. M. until 4 P. M.

The management of the Library is vested in a Library Council which is composed of the President, the Librarian and the Deans of the six colleges.

### STATE LIBRARIES

Students are privileged in being near the two State libraries.

The Ohio State Library numbers about 70,000 volumes and is a circulating one for all the citizens of Ohio. It occupies a room in the State House.

The State Law Library, also in the State House, is the largest and most complete law library in the State. It contains complete sets of the English, Scotch, Irish, Canadian, United States and State reports, statutes and digests. The important legal periodicals are on file.

### CITY LIBRARIES

The students of the University, as residents of Columbus, have access to the City Library and the Public School Library, under the usual regulations. The City Library numbers 28,000 volumes. It has specially pleasant reading and refer-

ence rooms. The Public School Library numbers 35,000 volumes, and is a well selected collection of books. Students will find both libraries valuable in supplementing the University Library.

#### SPECIAL LIBRARY IN ECONOMICS

The University possesses a special library in Economics consisting of several hundred volumes and pamphlets. Over thirty financial, commercial and trade journals are received and filed regularly. The business men of Columbus have contributed over \$1,200 for the equipment of this commercial library.

#### SPECIAL LIBRARY IN ZOOLOGY AND ENTOMOLOGY

The Department of Zoology and Entomology possesses a special library the nucleus of which was the scientific library of the late Prof. Kellicott which was generously donated to the Department. This has been increased by gifts of special papers by a number of the leading investigators of the country and will be enlarged as rapidly as possible. The private library of the professor is also accessible for reference.

#### AIDS TO MORAL AND RELIGIOUS CULTURE

Chapel services are held daily (except Saturday and Sunday) at the University, at which the attendance of all instructors and students is expected. The services consist of singing, reading the scriptures, and prayer.

One of the most commendable organizations in the University is a branch of the International Young Men's Christian Association, organized in 1883. It has a large membership and steadily grows in influence. Services are held weekly. New students are made cordially welcome, and young church members will here enjoy Christian influences and fellowship in college life. A University Circle of the International Order of the King's Daughters and Sons holds its meeting once a week, and includes in its membership a majority of the women attending the University. A club for the study and practice of philanthropy has recently been organized by the King's Daughters.

An effort is being made to complete, by subscription, the fund which was begun two years ago by students, alumni and professors, for the erection of a building to accommodate the student organizations of the University.

#### LITERARY AND OTHER SOCIETIES

The Alcyone Literary Society, open to young men, was founded in 1874; the Horton Literary Society, open to young men, was founded in 1875; the Athenæan Literary Society, open to young men, was founded in the winter of 1896-'97. The Browning Literary Society, founded in 1883, and the Philomathean Literary Society, founded in 1894, are open to young women. These societies have commodious and well furnished apartments in University Hall. They meet weekly, and their work, offering to the student a very desirable training in composition, public speaking, and parliamentary order, is a valuable adjunct to collegiate education.

The Biological Club is an organization of professors and students for mutual assistance and improvement in the line of natural science. Its meetings are regularly held every two weeks, at which papers are read, notes of observation and research presented, and current biological literature discussed. The Chemical Association is a similar organization in the line of chemistry.



The Political Science Club is an organization of instructors and students in political science and history for the consideration of questions in those fields. At the regular bi-weekly meetings papers are read, researches reported, and current questions and publications in political science, considered and discussed.

The Engineering Society is a similar organization of students and instructors, holding meetings bi-weekly, for the consideration of questions in the various branches of engineering.

The Townshend Society of the College of Agriculture meets weekly for the discussion of current topics in agriculture and related subjects.

The Germania Society was founded in 1895. Only students that have had elementary ("first year") German are eligible to membership.

The aim of this society is to give to its members additional opportunities for the study of German Literature and for the practical use of the German language. Nothing but German is spoken at the meetings, which are held every other week throughout the University year. Students of German find it very advantageous to be present at those meetings and to take an active part in them.

The Ethical Society, open to all students and to members of the Faculty, was organized in the winter of 1896-'97, and meets on the afternoon of each alternate Sunday.

The Philosophical Society, organized under the auspices of the departments of Philosophy and Pedagogy, in the winter of 1896-'97, is open to the students of the two departments named, and to those interested in Philosophy.

The Organic Evolution Club was organized in the winter of 1896-'97 by those students and members of the Faculty especially interested in the study of Evolution.

The O. S. U. Dramatic Club was organized in 1893. Its object is to present each year to the University world one of the standard legitimate dramas. Its membership is confined to University circles.

The musical organizations of the University are: The O. S. U. Glee Club, composed of sixteen members; the O. S. U. Octette, a mandolin orchestra of eight pieces; the O. S. U. Mandolin and Guitar Club, and the Cadet Band.

The Ornithological Club encourages observation and research in the study of birds and their habits, especially of our native species. The Wheaton collections in the possession of the University forms a basis of study. The programs consist of papers and discussions and reports of observation and personal work. Anyone interested in birds is eligible to membership and visitors are always welcome. The Club meets on the second and fourth Monday evenings of each month.

The O. S. U. Sketch Club was organized for the purpose of promoting art interest among the students of the University. Its membership is confined to University circles. The active members meet once a week for practical work; the associate members meet once a month in open session for literary programs bearing upon art, history and criticism.

The William F. Hunter Society, in the College of Law, meets for moot-court practice and quiz-work every two weeks.

## MILITARY SCIENCE AND TACTICS

Under the law of Congress establishing the University, it is required that instruction shall be given in military science and tactics. In accordance with this provision an officer of the regular army has been detailed to take charge of the Department of Military Science and Tactics; and the Trustees have directed that all male students, except those in the Law College, and such others as may be specially excused, shall render two years of cadet service as a condition of grad-



uation. A uniform has been prescribed with which each member is required to provide himself; and fifty minutes a day are devoted to drill, except on those days when instruction in tactics and art of war is given.

The course of instruction is both practical and theoretical. It is given by means of a systematic drill, supplemented by lectures and recitations, and is so arranged as to occupy five hours per week throughout the year. For purposes of drill, all students enrolled in the Department are organized in a battalion, the officers of which are selected from those students who have shown special proficiency in their University work and the work of the Department. Commissioned officers and non-commissioned officers receive certificates of satisfactory service, issued by the University. A cadet band has been organized in connection with this Department, and is supplied with instruments belonging to the University and to the cadets.

The practical course in infantry embraces all the movements prescribed by the drill regulations of the U. S. Army applicable to a battalion. Instruction in artillery embraces such portions of the United States drill regulations as pertain to the formation of detachments, manual of the piece, mechanical maneuvers and aiming drill. Instruction also includes duties of sentinels, the various ceremonies performed by troops, and military signaling. The theoretical instruction includes a systematic and progressive course in drill regulations of the U. S. Army, the organization and administration of the U. S. Army and the elementary principles governing in the art of war.

Competitive drills are held yearly for two medals; one, the first prize, of gold, presented to the University by the M. C. Lilley & Co., of Columbus, Ohio; the other, the second prize, of silver, presented by Lieut. Wilson, when commandant. These medals remain the property of the University, the winner wearing them until the next competition. The "President's Prize" consists of an officer's sword, given to the captain of the company having the best record for attendance for the year.

The equipments of the Department consist of three hundred Springfield cadet rifles and sets of infantry equipment, twenty officers' swords and belts, the necessary equipment for instruction in signaling, and a few instruments for the band.

The U. S. Ordnance Department furnishes an annual allowance of one thousand rounds of ball and one thousand rounds of blank cartridges for cadet rifles.

## PHYSICAL TRAINING

Competent instruction in hygiene and general sanitation is given by the director of the Gymnasium, who has entire charge of the physical training and well-being of all students. Supplementing this work, the practical instruction in military tactics is found to be a most valuable aid. In addition to this, the University grounds afford excellent opportunities for general athletics, and the students support well organized clubs in base ball, foot ball and lawn tennis. These and other sports are participated in by large numbers, and friendly contests are occasionally held with other colleges. Besides the special clubs named above, the students have an athletic association which holds an annual "Field Day," in which prizes are given to the victors in the various contests usual on such occasions.

## OHIO FORESTRY BUREAU

This Bureau has been established and located at the University by the Legislature for the purpose of inquiring into the best means of preserving and utilizing the forests of the State.

## FOURTH YEAR

## REQUIRED

FIRST TERM		SECOND TERM		THIRD TERM	
	Credit hours		Credit hours		Credit hours
Domestic Economy (7)	4.	Domestic Economy (8)	4.	Domestic Economy (9)	4.
Horticulture (8)	2.	Horticulture (9)	2.	Horticulture (10)	2.
Elements of Floriculture.		Commercial Floriculture.		Home Floriculture.	
		Physiology (6)	2.		

## ELECTIVE

Ten hours a week through the year, including two hours for thesis, chosen from any of the courses given in any College of the University upon which the student is qualified to enter; except in the College of Law.

## THESIS

As a requisite for graduation each candidate must present an acceptable thesis embodying the results of a special research. The subject must be announced to the President of the University (dependent upon the written approval of the head of the department in which it lies) not later than the beginning of the second term of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

## THE SHORT COURSES

A two-year course in Agriculture and a two-year course in Domestic Economy have been provided for those who have neither the time nor the means to pursue four-year courses. These short courses also enable those who lack the preparation for entering the four-year courses to obtain such preparation. The studies of the first year of the short courses, it will be noticed, nearly prepare the student to enter the first year of the four-year courses. The student having had chemistry in the first year of a short course can finish his preparation for either of the four-year courses during the first year of the latter course, in place of the chemistry required.

At the end of the first year of the Short Course in Agriculture, for example, the student has three strings to his bow. He may finish the second year of the short course by taking the more technical studies from the four-year courses, if lack of time or means demand it; or he may enter either the four-year course in Agriculture or the four-year course in Horticulture and Forestry. The same is practically true of the Short Course in Domestic Economy.

These short courses are not, of course, to be compared in breadth, strength, or thoroughness with the full courses of the University. They are far better preparation for the work to which they lead than no preparation; but all students are urged to take or to continue into the full four-year courses wherever possible.

## ADMISSION TO THE SHORT COURSES IN AGRICULTURE AND DOMESTIC ECONOMY AND THE COURSE IN DAIRYING

Applicants must be at least fifteen years of age, and unless over twenty-one years of age must pass an examination in *Arithmetic*, *Geography*, *Grammar* and *United States History*, or bring High School or other certificates for those branches. Applicants who are over twenty-one are admitted without examination.

## THE SHORT COURSE IN AGRICULTURE

### FIRST YEAR

#### REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1)	5.	Agr'l Chemistry (8)	5.	Agr'l Chemistry (9)	5.
Principles.		Organic.		Applications.	
Mathematics (1)	5.	Mathematics (3)	5.	Botany (1)	5.
Algebra.		Geometry.		Elementary.	
Physics (1)	5.	Physics (1)	5.	Geology (1)	5.
Elementary.		Elementary.		Physical Geography.	
Drawing (10)	2.	Shopwork (1)	3.	Physiology (2)	3.
Mechanical.				General.	
Cadet Service.		Cadet Service.		Cadet Service.	

### SECOND YEAR

Not less than fifteen hours per week through the year; chosen from any of the following courses subject to conditions named under "Departments of Instruction."

Agriculture (8)	4.	Agriculture (9)	4.	Agriculture (10)	4.
Breeds of Live Stock.		Principles of Breeding.		Stock Feeding.	
Agriculture (11)	4.	Agriculture (12)	4.	Agriculture (13)	4.
Farm Equipment.		Soils.		Crops.	
Botany (6)	5.	Agriculture (15)	4.	Zoology (7)	3.
Physiological.		Dairy.		Entomology.	
Horticulture (1)	4.	Horticulture (1)	4.	Horticulture (1)	4.
Elements.		Elements.		Elements.	
		Shopwork (2)	3.	Veterinary Medicine (30)	5.
Veterinary Medicine (28)	5.	Veterinary Medicine (29)	5.	Special Pathology.	
Anatomy.		General Pathology.		Horticulture (7)	4.
Horticulture (5)	4.	Horticulture (6)	2.		
		Physiology (6)	2.		
Cadet Service.		Cadet Service.		Cadet Service.	

### COURSE IN DAIRYING

The course in dairying begins each year on the Wednesday following the first day of January, and continues during the entire term. Butter-making, as practiced in the farm dairy and in the creamery, is thoroughly taught. The student performs all necessary operations in the manufacture of butter by these two methods, under the guidance of the instructors. In cheese-making the principles are taught, with elementary practice.

Agriculture (5). Dairy Farming. — Three hours each week. Lectures and recitations on breeds, breeding, feeding, selection and judging of dairy stock, equipment and management of dairy farms.

Agriculture (6). Butter and Cheese-making. — Four half days each week. Laboratory practice in running separator, churning, working butter, making cheese, milk testing, etc.

Agriculture (7). Butter and Cheese-making. — Two hours each week. Lectures and recitations.

Agricultural Chemistry (7). Milk Chemistry and Milk Testing. — Two hours each week. Lectures and laboratory practice.

Physiology (6). Bacteria in their relation to Milk, Butter and Cheese.—Two hours each week. Lectures and laboratory practice.  
 Veterinary Medicine (17). Diseases of the Cow. Three hours each week.  
 Mechanical Engineering (26). Steam Machinery.—One hour each week.

## SHORT COURSE IN DOMESTIC ECONOMY

### FIRST YEAR

#### REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1)	5.	Agr'l Chemistry (8)	5.	Agr'l Chemistry	5.
Principles.		Organic.		Applications.	
Mathematics (1)	5.	Mathematics (3)	5.	Botany (1)	5.
Algebra.		Geometry.		Elementary.	
Physics (1)	5.	Physics (1)	5.	Geology (1)	5.
Elementary.		Elementary.		Physical Geography.	
Hygiene and Phys. Train.		Hygiene and Phys. Train.		Hygiene and Phys. Train.	

### SECOND YEAR

#### REQUIRED

Domestic Economy	4.	Domestic Economy	4.	Domestic Economy	4.
Domestic Economy	4.	Domestic Economy	4.	Domestic Economy	4.
Hygiene and Phys. Train.		Hygiene and Phys. Train.		Hygiene and Phys. Train.	

#### ELECTIVE

Not less than seven hours per week chosen from the following courses; subject to the conditions named under "Departments of Instruction":

Botany (6)	5.	Botany (7)	5.	Botany (8)	5.
Physiological.		Physiological and		Economic Botany,	
		Economic.		Vegetable Pathology.	
Drawing (1)	2.	Drawing (1)	2.	Drawing (1)	2.
English Literature	4.	English Literature	4.	English Literature	4.
Horticulture (8)	2.	Horticulture (9)	2.	Horticulture (10)	2.
General Floriculture.		Commercial Floriculture.		Home Floriculture.	
Rhetoric (5)	2½.	Rhetoric (5)	2½.	Rhetoric (5)	2½.
English Composition.		English Composition.		English Composition.	
Zoology (1)	3.	Zoology (1)	3.	Zoology (1)	3.
Invertebrate.		Invertebrate.		Vertebrate.	



## COLLEGE OF ARTS, PHILOSOPHY, AND SCIENCE

FOR ADMISSION<sup>1</sup> TO THE COURSE IN ARTS

The following are the requirements:

1. *Arithmetic, Descriptive and Physical Geography, English Grammar, and United States History.*

2. *English (a)*—Composition and Rhetoric. Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of two essays of about two hundred words each. The first essay will be upon a subject drawn from the candidate's observation or experience. The second essay will be upon a subject drawn from the list of classics printed below.

The proper preparation for this requirement is sustained and regular practice in writing. The pupil should be afforded weekly practice in preparing written exercises—paragraphs, outlines, themes, reproductions and abstracts; and his written work should be corrected by the teacher and revised and rewritten by himself. Scott and Denney's *Composition—Rhetoric* is recommended as a guide for this work.

The pupil should be familiarized with those principles of Rhetoric which are most likely to help him in his composition work; such as the principles of sentential structure, outlining, paragraphing, and choice of words. The study of specimens of bad English is not recommended; the time usually devoted to this may be better spent in memorizing and reciting notable passages of prose and poetry selected from works read entire by the class. Exercises in speaking from a topical outline previously prepared by the class are recommended for drill in expression and choice of words.

The subjects for the weekly written exercises should be so distributed that the pupil will have practice in four types—description, narration, exposition and argumentation. Some of these subjects should be taken from the classics prescribed below, and other classics, preferably by the same authors, prescribed for parallel or subsidiary outside reading by the class; but fully one-half of the subjects upon which the pupil writes during the preparatory course should be drawn from his own observation and experience, especially subjects in description and narration.

(b) *English Classics*—Questions will be set for the purpose of testing the applicant's knowledge of the subject-matter, form and substance, of the following books; with the plot, purpose, literary style and peculiarities, incidents, and characters of which the applicant should make himself thoroughly familiar.

1899. Chaucer's *The Knight's Tale*, or Dryden's *Palamon and Arcite*; Milton's *Paradise Lost*, Books I and II; Pope's *Iliad*, Books I, VI, XXII and XXIV; The Sir Roger de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Cooper's *The Last of the Mohicans*; Lowell's *The Vision of Sir Launfal*; Hawthorne's *The House of Seven Gables*.

1900. Chaucer's *The Knight's Tale*, or Dryden's *Palamon and Arcite*; Milton's *Paradise Lost*, Books I and II; Pope's *Iliad*, Books I, VI, XXII and XXIV; The Sir Roger de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Cooper's *The Last of the Mohicans*; Macaulay's *Essay on Milton*; Burke's *Conciliation with the Colonies*.

1901. *Macbeth*; Burke's *Conciliation with the Colonies*; Macaulay's *Essays on Milton and Addison*; Milton's *Comus, Lycidas, L'Allegro and Il Penseroso*; Scott's *Ivanhoe*; Goldsmith's *The Vicar of Wakefield*; Tennyson's *Princess*; Coleridge's *The Ancient Mariner*; Lowell's *The Vision of Sir Launfal*.

These or equivalent texts will require minute and critical study in class during at least one school year. The test here is the pupil's ability to analyze plot and character; to explain words, phrases and figures; to reproduce thought, to point out characteristics of style. Systematic class-room study of the texts themselves is the only adequate preparation. Literary history, literary biography and the comments of professional critics will not serve the purpose. The work in class should be intensive and disciplinary; there the distinction between the reading of

<sup>1</sup> An applicant for admission who may be somewhat in arrears in any given subject, will find opportunity to make up his work in the Columbus High Schools, which are fully accredited by the University.

literature and the study of classics should be sharply defined. Outside reading of other works preferably by the same authors, is recommended, and should be prescribed as the basis of part of the composition work; but this general reading and composition work should not be regarded as an adequate substitute for the minute study of the few classics prescribed above, and will not be accepted as preparation for this part of the English requirement.

3. *Algebra* — Taylor's Academic or equivalent.
4. *Botany* — Kellerman's Elementary Botany and Spring Flora or equivalent.
5. *Civil Government* — Fiske or Thorpe preferred.
6. *Geometry, Plane and Solid* — Venable, White, Wentworth or Wells.
7. *Greek* — Grammar (Goodwin's preferred) and Prose Composition; or the first 100 lessons of White's Beginner's Greek Book. Reading: The first three books of Xenophon's *Anabasis*. At least two years should be devoted to this work.

8. *History* — Either Myers's General History (or equivalent); or, if the teacher's training and the school library will warrant, Greek and Roman History on the topical method. A circular concerning the topical method will be sent on application.

9. *Latin* — Pronunciation (the Roman method); Grammar (an exact knowledge of the inflections is essential); Cæsar, the first four books of the *De Bello Gallico*; Cicero, six orations, including *Pro Lege Manilia*; Vergil, the first six books of the *Aeneid*, with Prosody; Prose Composition, Daniell or Collar or Jones or Dodge and Tuttle, entire.

10. *Physics* — Carhart and Chute, Gage, Avery, or Appleton.

For the present, the *Greek* required for admission may be begun at the University, but without University credits.

#### TO THE LATIN COURSE IN PHILOSOPHY

The requirements are the same as for admission to the Course in Arts; except that instead of *Greek*, the applicant must offer *French* or *German*, as follows:

*French* — The whole subject of French Grammar. Applicants will be expected to read at sight easy French and to translate correctly into French simple English sentences. Two years ought to be given to this study, the first year being spent mainly on the Grammar with easy reading; the second devoted to reading good modern French, with grammatical analysis and exercises in writing. The text read should be chiefly narrative and conversational prose; one or more prose comedies of the nineteenth (not the seventeenth) century should be included.

*German* — Joynes-Meissner's or Thomas' Grammar is recommended. The essentials in these grammars should have been mastered thoroughly, *i. e.*, declensions of nouns and adjectives, pronouns, comparison of adjectives, prepositions, regular and irregular verbs and essentials of syntax.

The following books or their equivalents must have been read (not less than 600 pages): Joynes's or Whitney's Reader, Hillern's *Höher als die Kirche*, Riehl's *Der Fluch der Schönheit*, Freytag's *Die Verlorne Handschrift*, Gerstäcker *Irrfahrten*.

For the year 1899, the *German* or *French* required for admission may be begun at the University, but without University credits. For the year 1900, and thereafter, the full requirements as above stated will be held to.

#### TO THE MODERN LANGUAGE COURSE IN PHILOSOPHY

The requirements are the same as for admission to the Course in Arts; except that instead of *Latin* and *Greek*, the applicant may offer *Latin* and *French*, or *Latin* and *German*, or *French* and *German*, in the amounts specified above.

For the year 1899, either the *French* or the *German*, (but not both) required for admission may be begun at the University, but without University credits.

For the year 1900, and thereafter, the full requirements as above stated will be maintained.

#### TO THE ENGLISH COURSE IN PHILOSOPHY

The requirements are the same as for admission to the Modern Language Course in Philosophy. But in place of one of the foreign languages the applicant may offer the following group:

1. *Chemistry* — Williams or Remsen.
2. *English Literature* — Pancoast's Introduction to English Literature and an acquaintance with representative works in each period; or, *English History* — Montgomery.
3. *Physiology* — Martin (briefer course).

For the year 1899, one modern language required for admission may be begun at the University, but without University credits. For the year 1900, and thereafter the full requirements as above stated will be held to.

#### TO THE COURSE IN COMMERCE AND ADMINISTRATION

The requirements are the same as for admission to the Modern Language Course in Philosophy.

#### TO THE COURSE IN SCIENCE

The requirements are the same as for admission to the Modern Language Course in Philosophy.

#### TO GRADUATE WORK

1. The degree of Master of Arts will be conferred upon candidates holding the degree of B. A. or B. Ph. from this University or from other institutions making equivalent requirements for those degrees, upon the satisfactory completion, during not less than one year of residence (devoted exclusively to such work), of an approved course of study, covering a major subject and an allied minor subject. The major subject (two-thirds) shall be graduate work, taken in one of the departments of this (the Arts, Philosophy and Science) College. The minor subject (one-third) may be in graduate work.

2. The degree of Master of Science will be conferred upon candidates holding the degree of B. Sc. from the General Science Course of this University, or from institutions making equivalent requirements for this degree, and also upon graduates from the College of Engineering of this University, upon the terms specified for the degree of Master of Arts; except that the major subject shall be taken in one of the Departments of Science in this (the Arts, Philosophy and Science) College. The minor subject shall be in an allied Science.

3. The degree of Master of Arts will be conferred upon candidates holding the degree of B. A. or B. Ph. and the degree of Master of Science upon candidates holding the degree of B. Sc. from this University, or from other institutions making equivalent requirements for these degrees, and the degree of Master of Science will be conferred on graduates from the College of Engineering of this University, on the completion, during not less than one year of residence, of a course of study in one or more of the departments of this College, not less than one-third of which course shall be graduate work and not more than two-thirds may be such undergraduate work as is announced to be elective, such course to be subject to the approval of the Executive Committee of the Faculty of this College. But a degree conferred under the provisions of this paragraph shall in no case be counted towards the degree of Doctor of Philosophy, or Doctor of Science.

4. With the consent of the Faculty the work of candidates for Master's degree may be distributed over more than one year.



5. Each candidate for a Master's degree must also prepare and submit a thesis, and, after its acceptance, be examined upon the work assigned him. The regulations as to undergraduate theses apply to theses for Master's degree also.

6. The degree of Ph. D., or of D. Sc., will be conferred upon holders of the appropriate baccalaureate degree from this University, or from other institutions making equivalent requirements for the first degree, upon the satisfactory completion of three years of resident graduate work in the Arts, Philosophy and Science College, including thesis and examinations. Holders of the degree of Master of Arts or Master of Science from this University, under the conditions prescribed in paragraph one or two, or from other institutions making equivalent requirements for these degrees, may receive the Doctor's degree on the satisfactory completion of two years of resident graduate work after obtaining the Master's degree. On approval of the Faculty, the work of the first year, or of the first two years, of the three, may be done at another University which offers equivalent graduate work.

7. Candidates for the degree of Doctor of Science shall take their work wholly in Science.

8. With the consent of the Faculty the work required of candidates for Doctor's degrees may be distributed over more than three years.

## COURSE IN ARTS

### *Degree: Bachelor of Arts*

#### FIRST YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	hours Credit
Greek (51)	4.	Greek (52)	4.
Xenophon.		Herodotus, History.	
Latin (51)	4.	Latin (52)	4.
Cato, Cicero.		Livy, Horace.	
Mathematics (67)	3.	Mathematics (68)	3.
Algebra, Analytics, Calculus.		Trigonometry, Analytics, Calculus.	
Rhetoric (51)	2½.	Rhetoric (52)	2½.
English Composition.		English Composition.	
Cadet Service (men).*		Cadet Service (men).	
Hygiene and Phys. Train. (women).		Hygiene and Phys. Train. (women).	

One of the following (the choice being for the year):

Botany (57)	3.	Botany (58)	3.
Laboratory.		Laboratory.	
Botany (55)	4.	Zoology (64)	4.
Systematic and Physiological.		Comparative.	
Chemistry (51)	3.	Chemistry (52)	3.
Inorganic.		Inorganic.	
Physics (51) or (53)	3.	Physics (52) or (54)	3.
Mechanics, Heat, etc.		Electricity, Magnetism, etc.	
Zoology (51)	3.	Zoology (52)	3.
Comparative Zoology.		Comparative Zoology.	

\* A rule of the Board of Trustees requires each male student (except students in the College of Law) to render two years' cadet service as a condition of graduation. Students physically incapacitated for cadet service will be assigned an equivalent in special gymnasium work. The President has authority to excuse from cadet service under certain conditions.

Young women are required to carry Hygiene and Physical Training in place of cadet service.



## SECOND YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
Greek (53)	4.	Greek (54)	4.
Lysias.	.	Homer.	.
†History (55)	} 4.	Economics (52)	} 4.
United States		Elementary	
or		or	
†Economics (51)	} 4.	History (56)	} 4.
Elementary.		United States.	
Latin (53)	4.	Latin (54)	4.
Horace, Pliny.	.	Tacitus, Juvenal.	.
English Literature (51)	4.	Rhetoric (54)	4.
Introductory.	.	Analysis of Prose.	.
Cadet Service (men).	.	Cadet Service (men).	.
Hygiene and Phys. Train. (women).	.	Hygiene and Phys. Train. (women).	.

## THIRD YEAR

Philosophy (51)	4.	Philosophy (52)	4.
Psychology.	.	Logic and Ethics.	.
*Major Study.	4.	Major Study.	4.

## ELECTIVE

Eight hours a week through the year — chosen from the courses in this College; *except* that, not earlier than the third year, studies equivalent to five hours a week for one year may be chosen from any course or courses taught in the University; provided that the studies chosen are such as the student is qualified to pursue.

## FOURTH YEAR

*Major Study.	5.	Major Study.	5.
Electives (as in third year).	10.	Electives (as in third year).	10.

## THESIS

At the beginning of the Senior year, each student in this Course will take up as thesis work some special line of inquiry within the field of his major study, subject to the approval of the professor in charge of the department, and must devote to it two hours per week, or its equivalent, independently of his other work. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the beginning of the second semester of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

\* Major Study. Not later than the beginning of the Third Year, each student shall elect a Major Study in one department or with the consent of the professors in charge, in two allied departments in this college. To the Major Study he shall devote not less than four nor more than ten hours a week during the third year, and not less than five nor more than ten hours the fourth year. With the approval of the proper authority, the Major Study may be entered upon in the second year; an equivalent amount of the required work of that year, not in the line of the Major Study, being postponed to the third year; but the amount so postponed shall not exceed four hours a week. In this case, the elective work of the third year will be reduced by a like amount.

† The subject not taken the first Semester will be taken the second.

## LATIN COURSE IN PHILOSOPHY

*Degree: Bachelor of Philosophy*

## FIRST YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
French (51)	4.	French (52)	4.
Elementary, or		Prose and Plays or	
German (51)	4.	German (52)	4.
Elementary.		Elementary.	
Latin (51)	4.	Latin (52)	4.
Cato, Cicero.		Livy, Horace.	
Mathematics (67)	3.	Mathematics (68)	3.
Algebra, Analytics, Calculus.		Trigonometry, Analytics, Calculus.	
Rhetoric (51)	2½.	Rhetoric (52)	2½.
English Composition.		English Composition.	
Cadet Service (men).		Cadet Service (men).	
Hygiene and Phys. Train. (women).		Hygiene and Phys. Train. (women).	

One of the following (the choice being for the year):

Botany (57)	3.	Botany (58)	3.
Laboratory.		Laboratory.	
Botany (55)	4.	Zoology (64)	4.
Systematic and Physiological.		Comparative.	
Chemistry (51)	3.	Chemistry (52)	3.
Inorganic.		Inorganic.	
Physics (51) or (53)	3.	Physics (52) or (54)	3.
Mechanics, Heat, etc.		Electricity, Magnetism, etc.	
Zoology (51)	3.	Zoology (52)	3.
Comparative Zoology.		Comparative Zoology.	

## SECOND YEAR

French (55)	4.	French (56)	4.
Modern Literature or		Modern Literature or	
German (55)	4.	German (56)	4.
Literature.		Lyrics.	
*History (55)	4.	Economics (52)	4.
United States or		Elementary	
*Economics (51)	4.	History (56)	4.
Elementary.		United States.	
Latin (53)	4.	Latin (54)	4.
Horace, Pliny.		Tacitus, Juvenal.	
*English Literature (51)	4.	Rhetoric (54)	4.
Introductory.		Analysis of Prose.	
Cadet Service (men).		Cadet Service (men).	
Hygiene and Phys. Train. (women).		Hygiene and Phys. Train. (women).	

\* The subject not taken the first semester, to be taken the second semester.

## THIRD YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
Philosophy (51)	4.	Philosophy (52)	4.
Psychology.		Logic and Ethics.	
†Major Study.	4.	Major Study.	4.

## ELECTIVE

Eight hours a week through the year — chosen from the courses in this College; *except* that, not earlier than the third year, studies equivalent to five hours a week for one year may be chosen from any course or courses taught in the University; provided that the studies chosen are such as the student is qualified to pursue.

## FOURTH YEAR

†Major Study	5.	†Major Study	5.
Electives (as in third year).	10.	Electives (as in third year).	10.

## THESIS

At the beginning of the Senior year, each student in this Course will take up as thesis work some special line of inquiry within the field of his major study, subject to the approval of the professor in charge of the department, and must devote to it two hours per week, or its equivalent, independently of his other work. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the beginning of the second semester of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

## MODERN LANGUAGE COURSE IN PHILOSOPHY

*Degree: Bachelor of Philosophy*

## FIRST YEAR

French	4.	French	4.
German	4.	German	4.
Mathematics (67)	3.	Mathematics (68)	3.
Algebra, Analytics, Calculus.		Trigonometry, Analytics, Calculus.	
Rhetoric (51)	2½.	Rhetoric (52)	2½.
English Composition.		English Composition.	
Cadet Service (men).		Cadet Service (men).	
Hygiene and Phys. Train. (women).		Hygiene and Phys. Train. (women).	

† Major Study. Not later than the beginning of the Third Year, each student shall elect a Major Study in one department or with the consent of the professors in charge, in two allied departments in this college. To the Major Study he shall devote not less than four nor more than ten hours a week during the third year, and not less than five nor more than ten hours the fourth year. With the approval of the proper authority, the Major Study may be entered upon in the second year; an equivalent amount of the required work of that year, not in the line of the Major Study, being postponed to the third year; but the amount so postponed shall not exceed four hours a week. In this case, the elective work of the third year will be reduced by a like amount.

One of the following (the choice being for the year):

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
Botany (57)	3.	Botany (58)	3.
Laboratory.		Laboratory.	
Botany (55)	4.	Zoology (64)	4.
Systematic and Physiological.			
Chemistry (51)	3.	Chemistry (52)	3.
Inorganic.		Inorganic.	
Physics (51) or (53)	3.	Physics (52) or (54)	3.
Mechanics, Heat, etc.		Electricity, Magnetism, etc.	
Zoology (51)	3.	Zoology (52)	3.
Comparative Zoology.		Comparative Zoology.	

## SECOND YEAR

French	4.	French	4.
German	4.	German	4.
*History (55)	} 4.	Economics (52)	} 4.
United States		Elementary	
or		or	
*Economics (51)	} 4.	History (56)	} 4.
Elementary.		United States.	
Rhetoric (53)	4.	English Literature (52)	4.
Analysis of Prose.		Introductory.	
Cadet Service (men).		Cadet Service (men).	
Hygiene and Phys. Train. (women).		Hygiene and Phys. Train. (women).	

## THIRD YEAR

Philosophy (51)	4.	Philosophy (52)	4.
Psychology.		Logic and Ethics.	
†Major Study.	4.	†Major Study.	4.

## ELECTIVE

Eight hours a week through the year — chosen from the courses in this College; *except* that, not earlier than the third year, studies equivalent to five hours a week for one year may be chosen from any course or courses taught in the University; provided that the studies chosen are such as the student is qualified to pursue.

## FOURTH YEAR

†Major Study.	5.	†Major Study.	5.
Electives (as in third year).	10.	Electives (as in third year).	10.

## THESIS

At the beginning of the Senior year, each student in this Course will take up as thesis work some special line of inquiry within the field of his major study, subject to the approval of the professor in charge of the department, and must devote to it two hours per week, or its equivalent, independently of his other work. The

\* The subject not taken the first semester, will be taken the second semester.

† Major Study. Not later than the beginning of the Third Year, each student shall elect a Major Study in one department or with the consent of the professors in charge, in two allied departments in this college. To the Major Study he shall devote not less than four nor more than ten hours a week during the third year, and not less than five nor more than ten hours the fourth year. With the approval of the proper authority, the Major Study may be entered upon in the second year; an equivalent amount of the required work of that year, not in the line of the Major Study, being postponed to the third year; but the amount so postponed shall not exceed four hours a week. In this case, the elective work of the third year will be reduced by a like amount.



subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the beginning of the second semester of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

## ENGLISH COURSE IN PHILOSOPHY

*Degree: Bachelor of Philosophy*

### FIRST YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
French (51)	4.	French (52)	4.
Elementary		Prose and Plays	
or		or	
German (51)	3.	German (52)	3.
Elementary.		Elementary.	
History (51)		History (52)	
European.		European.	
Mathematics (67)	3.	Mathematics (68)	3.
Algebra, Analytics, Calculus.		Trigonometry, Analytics, Calculus.	
Rhetoric (51)	2½.	Rhetoric (52)	2½.
English Composition.		English Composition.	
Rhetoric and English Language (69)	2.	Rhetoric and English Composition (70)	2.
History of English.		Development of Prose.	
Cadet Service (men).		Cadet Service (men).	
Hygiene and Phys. Train. (women).		Hygiene and Phys. Train. (women).	

One of the following (the choice being for the year):

Botany (57)	3.	Botany (58)	3.
Laboratory.		Laboratory.	
Botany (55)	4.	Zoology (64)	4.
Systematic and Physiological.		Comparative.	
Chemistry (51)	3.	Chemistry (52)	3.
Inorganic.		Inorganic.	
Physics (51) or (53)	3.	Physics (52) or (54)	3.
Mechanics, Heat, etc.		Electricity, Magnetism, etc.	
Zoology (51)	3.	Zoology (52)	3.
Comparative Zoology.		Comparative Zoology.	

### SECOND YEAR

French (55)	4.	French (56)	4.
Modern Literature		Modern Literature	
or		or	
German (55)	4.	German (56)	4.
Literature.		Lyrics.	
*History (55)	4.	Economics (52)	4.
United States		Elementary	
or		or	
*Economics (51)	3.	History (56)	3.
Elementary.		United States.	
Philosophy (53)		Philosophy (54)	
Rhetoric (53)	4.	English Literature (52)	4.
Analysis of Prose.		Introductory.	
Rhetoric and English Language (71)	2.	Rhetoric and English Language (72)	2.
Old English.		Old English.	
Cadet Service (men).		Cadet Service (men).	
Hygiene and Phys. Train. (women).		Hygiene and Phys. Train. (women).	

\* The subject not taken the first semester, will be taken the second.

## THIRD YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
Philosophy (55)	3.	Philosophy (56)	3.
†Major Study.	4.	Major Study.	4.

## ELECTIVE

Eight hours a week through the year — chosen from the courses in this College; *except* that, not earlier than the third year, studies equivalent to five hours a week for one year may be chosen from any course or courses taught in the University; provided that the studies chosen are such as the student is qualified to pursue.

## FOURTH YEAR

Major Study.	5.	Major Study.	5.
Electives (as in third year).	10.	Electives (as in third year).	10.

## THESIS

At the beginning of the Senior year, each student in this Course will take up as thesis work some special line of inquiry within the field of his major study, subject to the approval of the professor in charge of the department, and must devote to it two hours per week, or its equivalent, independently of his other work. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the beginning of the second semester of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

## COURSE IN COMMERCE AND ADMINISTRATION

*Degree: Bachelor of Philosophy*

## FIRST YEAR

French (51)	4.	French (52)	4.
Elementary.		Prose and Plays.	
German (51)	4.	German (52)	4.
Elementary.		Elementary.	
History (51)	3.	History (52)	3.
European.		European.	
Mathematics (67)	5.	Mathematics (68)	3.
Algebra, Analytics, Calculus.		Trigonometry, Analytics, Calculus.	
Rhetoric (51)	2½.	Rhetoric (52)	2½.
English Composition.		English Composition.	
Cadet Service (men).		Cadet Service (men).	
Hygiene and Phys. Train. (women).		Hygiene and Phys. Train. (women).	

† Major Study. Not later than the beginning of the Third Year, each student shall elect a Major Study in one department or with the consent of the professors in charge, in two allied departments in this college. To the Major Study he shall devote not less than four nor more than ten hours a week during the third year, and not less than five nor more than ten hours the fourth year. With the approval of the proper authority, the Major Study may be entered upon in the second year; an equivalent amount of the required work of that year, not in the line of the Major Study, being postponed to the third year; but the amount so postponed shall not exceed four hours a week. In this case, the elective work of the third year will be reduced by a like amount.

## SECOND YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
French (55)	4.	French (56)	4.
Modern Literature		Modern Literature	
or		or	
German (55)	4.	German (56)	4.
Literature.		Lyrics.	
*History (55)	4.	Economics (52)	4.
United States		Elementary	
or		or	
*Economics (51)	5.	History (56)	3.
Elementary.		United States.	
History (53)	4.	History (54)	4.
England.		England.	
Rhetoric (53)		English Literature (52)	
Analysis of Prose.		Introductory.	
Cadet Service (men).		Cadet Service (men).	
Hygiene and Phys. Train. (women).		Hygiene and Phys. Train. (women).	

One of the following (the choice being for the year):

Botany (57)	3.	Botany (58)	3.
Laboratory.		Laboratory.	
General Chemistry (51)	3.	General Chemistry (52)	3.
Inorganic.		Inorganic.	
Physics (51) or (53)	3.	Physics (52) or (54)	3.
Mechanics, Heat, etc.		Electricity, Magnetism, etc.	
Zoology (51)	3.	Zoology (52)	3.
Comparative Zoology.		Comparative Zoology.	

## THIRD YEAR

†Elementary Law	6.	†Contracts	4.
Philosophy (51)	4.	Philosophy (52)	4.
‡Major Study	4.	‡Major Study	4.

## ELECTIVE

From the list of courses mentioned below, selection may be made to make up the required number of hours. Not less than sixteen nor more than eighteen hours a week are permitted and no substitutions or options further than those indicated below.

Economics { (53) (55) (57) } { (59) (63) (65) }	2 or 3.	Economics { (54) (56) (58) } { (60) (64) }	2 or 3.
German	2 or 3.	German	2 or 3.
History { (57) (59) } { (63) (65) }	2 or 3.	History { (58) (60) } { (64) (68) }	2 or 3.
Political Science (51) (53)	2 or 3.	Political Science (52) (54)	2 or 3.
Rhetoric (57)	3.	Rhetoric (58)	3.
Romance Language	2 or 3.	Romance Language	2 or 3.

\* The subject not taken the first semester will be taken the second semester.

† In place of Elementary Law six hours; Commercial Law four hours and Corporations (Private and Municipal) two hours may be substituted. Also in place of Contracts, four hours, any two of the following may be substituted: Corporations (Private), Insurance, Agency, Sales, Mortgages.

‡ See note page 79.

## FOURTH YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
†Major Study.	5.	†Major Study.	5.
Electives (as in third year).	10.	Electives (as in third year).	10.

## THESIS

At the beginning of the fourth year, each student in this Course will take up as thesis work some special line of inquiry within the field of his major study, subject to the approval of the professor in charge of the department, and must devote to it two hours per week, or its equivalent, independently of his other work. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the beginning of the second semester of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

## COURSE IN GENERAL SCIENCE

*Degree: Bachelor of Science*

## FIRST YEAR

Botany (55)	4.	Zoology (64)	4.
Systematic and Physiological.		Comparative.	
French (51)	} 4.	French (52)	} 4.
Elementary		Prose and Plays	
or		or	
German (51)	} 4.	German (52)	} 4.
Elementary.		Elementary.	
Chemistry (51)	3.	Chemistry (52)	3.
Inorganic.		Inorganic.	
Mathematics (67), (65)	} 4.	Mathematics (68), (66)	} 4.
Algebra, Analytics, Calculus		Trigonometry, Analytics, Calculus	
or		or	
Mathematics (55), (57)	} 5.	Mathematics (56), (58)	} 5.
Trigonometry and Algebra.		Algebra and Analytics.	
Rhetoric (51)	2½.	Rhetoric (52)	2½.
English Composition.		English Composition.	
Cadet Service (men).		Cadet Service (men).	
Hygiene and Phys. Train. (women).		Hygiene and Phys. Train. (women).	

† Major Study. Not later than the beginning of the Third Year, each student shall elect a Major Study in one department or with the consent of the professors in charge, in two allied departments in this college. To the Major Study he shall devote not less than four nor more than ten hours a week during the third year, and not less than five nor more than ten hours the fourth year. With the approval of the proper authority, the Major Study may be entered upon in the second year; an equivalent amount of the required work of that year, not in the line of the Major Study, being postponed to the third year; but the amount so postponed shall not exceed four hours a week. In this case, the elective work of the third year will be reduced by a like amount.



## SECOND YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
Economics (51)	4.	Rhetoric (54)	4.
Political Economy.		Analysis of Prose.	
‡French	} 4.	French	} 4.
or		or	
‡German		German	
Physics (51)	3.	Physics (52)	3.
Mechanics, Heat, etc.		Electricity, Magnetism, etc.	
Physiology (51)	3.	Physiology (52)	3.
Human Anatomy.		Physiology.	
Cadet Service (men).		Cadet Service (men).	
Hygiene and Phys. Train. (women).		Hygiene and Phys. Train. (women).	

Together with one of the following subjects, to be continued through the year:

(a) Botany (57), (58), each three hours credit or (59), (60), each five hours credit for a semester. (b) General Chemistry (53), (54), each five hours credit. (c) Geology (51), (52), and Metallurgy (52). Geology running for two-thirds of the year and Metallurgy for one-third; total, five hours credit for the year. (d) Mathematics (59), (61), (60), (62), each five hours credit for a semester. (e) Zoology (53), (54), each three hours credit, or (55), (56), each five hours credit.

## THIRD YEAR

†Geology (if not taken the second year)	5.	Geology (if not taken the second year)	} 5.
General		General and	
or		**Astronomy (52)	
‡French or German	4.	General	
		or	
		**Astronomy (54)	
		Mathematical.	
Philosophy (53)	3.	Philosophy (54)	3.
*Major Study.	4.	Major Study.	4.

Elective: Four hours a week through the year — chosen from the courses in this College, *except* that not earlier than the third year:

First: Studies equivalent to five hours a week for one year may be chosen from any courses taught in the University; provided, that the studies chosen are such as the student is qualified to pursue.

Second: Additional studies equivalent to five hours a week for one year may be chosen in the College of Engineering.

† In the Second Semester, Geology is followed by Astronomy, which occupies the last nine weeks of the Semester.

\* Major Study. Not later than the beginning of the Third Year each student shall elect a Major Study in Mathematics or in a Science in which Laboratory instruction is given. This Major Study shall be in one department, or with the consent of the professors in charge, in two allied departments in this college. To the Major Study the student shall devote not less than four nor more than ten hours a week during the Fourth Year.

‡ It is desired that the student on completing this course, shall possess a good reading knowledge of both French and German. Therefore, the student entering on both French and German will take both languages in the University, each for one year. He who enters on one Modern Language will continue that language one year in case he cannot read easy prose at sight and take the other language for one year. In case a reading knowledge of one Modern Language is possessed, the student will take the other language two years. The third year of Language in the case of students making the Mathematics a specialty will be that language of which the student has the less knowledge.

\*\* Students who elect Mathematics as their Major Study shall, in the Third Year, take French or German four hours the first semester and Astronomy five hours the second semester instead of Geology five hours the first semester and Geology and Astronomy five hours the second semester.

## TERMS AND VACATIONS

The first term of the year 1899-1900 begins on Wednesday following the tenth day of September, and closes on the Wednesday preceding Christmas. The second term begins on the Wednesday following the first day of January, and closes on the Friday following the twenty-first day of March. The third term begins on the Monday following the close of the second term, and closes on Commencement day, which is the Wednesday following the eleventh day of June.

In the college of Arts, Philosophy and Science and in the college of Law the first semester begins on the Wednesday following the tenth day of September and closes on the Friday preceding the second semester. The second semester begins on the Monday of the eighteenth week preceding Commencement Week and closes on Commencement Day.

Regular college exercises are omitted on Thanksgiving Day and the day following, on the twenty-second day of February, and on Memorial Day.

The first term of the University year 1900-1901 and thereafter will begin on the Tuesday following the sixteenth day of September and will close on the Wednesday following the 17th day of June. The first term will close on the Wednesday preceding Christmas; the second term will begin on the Tuesday following the first day of January and will close on the Friday preceding the first Monday in April; the third term will begin on the Wednesday following the close of the second term. The second semester will begin on Monday of the eighteenth week preceding commencement week; and the first semester will close on the Friday preceding the opening of the second semester.

Regular college exercises will be suspended from 4 o'clock p. m. of the Wednesday preceding Christmas until 8 o'clock a. m. of the Tuesday following the first day of January; on Thanksgiving and the day following; on University day which is the twenty-second day of February; from 4 o'clock p. m. of the Friday preceding the first Monday in April until 8 o'clock a. m. of the Wednesday following the first Monday in April; and on Memorial Day.

## FEES

## THE COLLEGES

**INCIDENTAL FEE.** — A charge of fifteen dollars a year is made against all students, under the head of incidental expense. In the case of former students if this fee is not paid until the second day of the term one dollar will be added, and for each succeeding day of delinquency fifty cents will be added.

**LABORATORY FEES.** — Students in the laboratories and shops are required to pay fees to cover, in part, the cost of the material consumed, and the deterioration of the expensive instruments used by them. The fees charged per term in the laboratories mentioned below are as follows:

Agriculture, 6.....	\$ 10 00
“ 15.....	5 00
Anatomy and Physiology, 53, 54, 55, 56, 59, 60.....	7 50
“ “ (Vet. Medicine) 4.....	5 00
Botany, 4, 6, 7, 8, 6a.....	2 00
“ 53, 55, 57, 58, 59, 60, 64.....	3 00
“ 56 (half semester).....	1 50
Ceramics, 1, 2, 3, 7, 8.....	1 50
“ 9, 10, 11, 12.....	5 00
Domestic Science, 1, 2, 3, 4.....	5 00
“ 5, 6, 7, 8, 9, 11, 12, 13.....	1 00
Drawing, 7 .....	2 00

Elec. Engineering, 4, 5, 4 or 5 hrs., \$7.00; 3 hrs. or less.....	5 00
Gymnasium .....	1 00
Law of Contracts (Engineering).....	5 00
Metallurgy, 3, 5, 6.....	1 50
Mechanical Engineering, 12, 13, 14, 15, 16, 17, 23, 24, 25.....	5 00
Pharmacy, 7, 8, 9, 10, 11, 15, 17, 18, 51.....	1 50
Pharmacy, 52 .....	2 25
Physics, 5, 6, 7, 9, 11, 3 hrs., \$5.00; over 3 hrs.....	7 00
Physics, 54, 55, 56, 57, 58, 60, 3 hrs., \$7.50; over 3 hrs.....	10 50
Shopwork, 4 hrs. or less.....	5 00
Shopwork, 5 hrs. or more.....	7 00
Zoology and Entomology, 53, 54, 55, 56, 61, 62.....	7 50
Zoology and Entomology, 57, 58, 59, 60.....	4 50
Zoology and Entomology (Agriculture), 4, 7.....	1 00

The fees of the College of Law are \$30 per semester, including the usual incidental fee.

In the laboratories of the Department of Chemistry and Agricultural Chemistry, each student is required at the beginning of each term to pay a fixed charge of one dollar and fifty cents for gas and water (\$2.25 each semester). He is also required to buy his own supplies, as he needs them, at the general storeroom in Chemical Hall, where laboratory supplies are sold to students at first cost to the University.

*All term dues must be paid at the opening of each term as a condition of admission to classes.*

#### AUDITOR'S FEE

On presentation to the Bursar of the written consent of the head of a department, and on payment to the Bursar of an auditor's fee of one dollar, any person engaged in teaching is permitted to attend, in that department, any class or course (not to exceed three hours a week for one-half year) which is announced to be especially for teachers or those intending to teach.

**GRADUATION FEE.**—A fee of five dollars, to cover expenses of graduation, diplomas, etc., is required of each person receiving one of the ordinary degrees from the University, and this fee must be paid before the degree is conferred. A like fee of ten dollars is charged to each person receiving one of the higher graduate degrees.

**FREE SCHOLARSHIP IN AGRICULTURE AND DOMESTIC SCIENCE, AND IN VETERINARY MEDICINE.**—A free scholarship, good for the two-year Courses, or for the First year of the Short Courses and the First year of the four-year Courses in the College of Agriculture and Domestic Science, is granted to one student annually from each county in Ohio. Each scholarship is valid two years from its grant, and covers the incidental fee and all laboratory fees (except gymnasium fee), but the person appointed to receive its benefits is subject to all the other conditions prescribed for admission to the Course. If in any county there is no applicant for the free scholarship in Agriculture, then a free scholarship, good for two years in the College of Veterinary Medicine, may be granted, subject to the same conditions as are prescribed for the free scholarship in Agriculture. The appointments are made by the county boards of agriculture, and are not transferable by the appointees. To learn whether the scholarship of a given county for the current year has been granted, inquiries should be addressed to the Secretary or President of the County Agricultural Society. For further information concerning these scholarships, inquiries should be addressed to the Dean of the College of Agriculture and Domestic Science.



## THE COLLEGE OF LAW

**INCIDENTAL FEE.** — An incidental fee of fifteen dollars per year is charged to regular undergraduate students.

Upon payment of the incidental fee, law students will be admitted to all the privileges of all the other Colleges of the University, upon the same terms as to admission, discipline, character of studies selected, etc., as other students in the University.

**TUITION FEE.** — In addition to the incidental fee named above, a tuition fee of twenty-two dollars and fifty cents per semester is charged to regular undergraduate students.

**GRADUATE FEE.** — A graduate fee of fifteen dollars per semester, payable in advance, is charged to all who take the full graduate work.

**DIPLOMA FEE.** — A fee of five dollars (to cover the expenses of graduation, diplomas, etc.,) is charged to all who take the degree of Bachelor of Laws, and a fee of ten dollars is charged to those taking the degree of Master of Laws. These fees must be paid before the degrees are conferred.

Special students are required to arrange their fees satisfactorily with the Dean or Secretary before being admitted.

## OTHER EXPENSES

There are two dormitories on the University grounds for the use of students. Each occupant is charged by the University a rent of a dollar and a half a term.

The South Dormitory affords unfurnished rooms to such students as desire to board themselves, and thus to reduce their expenses to a minimum. The expense of living in this way is about two dollars per week. Applications for rooms should be made to the President of the University.

The North Dormitory will accommodate more than sixty students. Board, furnished rooms, fuel, light and washing are, at present prices, supplied for about three dollars and fifty cents a week. Students will be admitted on special recommendation to the President of the University.

Boarding clubs are also formed in the neighborhood of the University. Furnished rooms are rented at seventy-five cents to one dollar a week for each student, and the cost of table board is two dollars to three dollars a week.

Board with furnished rooms can be obtained in private families, within convenient distances of the University, at rates varying from three and a half dollars to five dollars a week. The ruling rate may be taken as four dollars.

The uniform with which the members of the battalion are required to provide themselves costs (without overcoat) about fourteen dollars. It is quiet in pattern, and is designed to be worn daily in place of civilian dress.

The expenses of a student in the University for a year may be estimated as follows, excluding clothing (except uniform) and traveling expenses:

	Low	Average	High
Incidental fees .....	\$15 00	\$15 00	\$15 00
Laboratory fees .....	15 00	20 00	54 00
Books and stationery .....	15 00	25 00	40 00
Room .....	4 50	37 00	75 00
Furniture .....	10 00	.....	.....
Board .....	70 00	110 00	150 00
Uniform .....	14 00	14 00	14 00
	<hr/>	<hr/>	<hr/>
	\$143 50	\$221 00	\$348 00



The second and third estimates for room include light, fuel and care. The third estimate is for a room occupied by a single student. The requirements for laboratory fees and books depend upon the course of study pursued.

### SELF-SUPPORT

There is a large amount of work upon the University farm which is assigned to students, preference being given to those who are studying Agriculture. *But the University cannot promise work to all applicants.* Many students find work in private families, in offices, and in various occupations, by means of which they defray at least a portion of their expenses. A person of ability and energy, who is master of a trade, or who can do good work of any kind, can generally find remunerative employment. It has seldom been known that any student of ordinary energy and industry was obliged to leave the University because of a lack of money for necessary expenses, *after having been say sixty days on the ground* — or long enough to inform himself as to the opportunities for securing employment. An employment bureau is maintained at the University, where the names of those seeking work and of those desiring workers are recorded.

For further information, address "Executive Office, State University, Columbus, Ohio."

# THE COLLEGES



# THE COLLEGES

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## ADMISSION

The University is open on equal terms to both sexes.

The entrance examinations for 1899 will be held on Monday and Tuesday, June 12 and 13, and on Monday and Tuesday, September 11 and 12. A part of the examinations may be taken in June and the remainder in September. Conditions incurred at the June examinations must be removed at the September examinations.

Applicants for admission to the Colleges of Agriculture, of Arts, Philosophy and Science, or of Pharmacy, must be at least sixteen years of age; for admission to the College of Engineering or of Veterinary Medicine must be at least seventeen years of age; for admission to the College of Law must be at least eighteen years of age. Each must be provided with credentials of scholarship from his last instructor or from the last institution with which he has been connected, and with a certificate of good moral character.

There are three modes of admission to the University:

1. Certificates of the preparatory departments of Colleges of approved standing and of Normal schools in Ohio are accepted, if found satisfactory, in lieu of examination for preparatory studies, under the following conditions:

Each certificate must contain a detailed statement of the studies pursued, the text books used, the amount of work done in each study, the amount of time devoted to it, the date of the examination, and the applicant's rank or standing in it. A copy of the course of study should accompany the certificate; and both should be sent to the University not later than the first of September. *The University cannot promise this recognition to those certificates presented during entrance week.*

Blank certificates will be furnished on application.

Applicants for admission who come from other Colleges or Universities are required to bring certificates of honorable dismissal.

Teachers' certificates (in force) will be accepted at their face value.

2. From time to time the University approves the courses of study in certain High Schools of the State; and the graduates of these High Schools are admitted on presentation of cards issued to them at their graduation by the University through the Principals of the High Schools.

3. All other applicants are subject to examination on the groups of study mentioned below under the headings of those Colleges and Courses in the University which they desire to enter.

*Full equivalents for the text-books named will be accepted.*

## ADMISSION TO SPECIAL STUDIES

Students who desire to pursue special lines of work in any of the Colleges of the University, and do not desire to become candidates for degrees, will be admitted on the following conditions:



1. The regular entrance requirements must be satisfied.

But applicants who are not less than twenty-one years of age (eighteen years, in the College of Engineering), after obtaining credit for elementary or "grade" work, and for such other subjects as may be necessary to qualify them for the classes that they wish to enter, may, on the presentation of satisfactory reasons, be admitted by the proper Faculty to any class in the University; provided, that if any student who has been admitted on these conditions afterwards becomes a candidate for a degree, he shall take the omitted entrance examinations at least twelve months before the degree is conferred.

2. On entering the University, students desiring to pursue special work are required to lay before the proper Faculty, for approval or modification, a written statement of the end they have in view, the studies proposed for the attainment of that end, and the probable period of attendance. Such students will be held as strictly to their accepted schemes of work as are the regular undergraduates to their courses of study.

3. *Permission to enter as special undergraduates will be refused to all who fail to give satisfactory evidence of definiteness of purpose, and will be withdrawn whenever the conditions on which it was granted cease to exist.*

## ADMISSION TO ADVANCED STANDING

1. Applicants who do not come from some other University or College must first obtain admission to some College of the University in the manner already described. They will then be examined on the undergraduate studies for which they ask credits:

2. Applicants who come from the collegiate department of an approved College, and who bring explicit and official certificates describing their course of study and scholarship, and also certificates of honorable dismissal, will be admitted without examination except such as may be necessary to determine what credit they are to receive here for work done in the College from which they come.

## ADMISSION TO GRADUATE WORK

Graduates of this or other institutions may, on application to the Faculty, enter the University and pursue such lines of work as may be arranged or approved by the appropriate collegiate committee. Such graduate students are subject to all the ordinary regulations (as to fees, attendance, etc.), prescribed for undergraduates.

### IN THE COLLEGES OF AGRICULTURE AND DOMESTIC SCIENCE, ENGINEERING, LAW AND PHARMACY

Masters degrees are conferred upon graduates in Agriculture, Horticulture and Forestry, Engineering, Law and Pharmacy at the end of not less than one year's residence, which shall be wholly devoted to the completion of an approved course of study in the University. Each is required in addition to present an acceptable thesis upon some subject connected with his course of study.

### IN THE COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

1. The degree of Master of Arts will be conferred upon candidates holding the degree of B. A. or B. Ph. from this University or from other institutions making equivalent requirements for those degrees, upon the satisfactory comple-

tion, during not less than one year of residence (devoted exclusively to such work), of an approved course of study, covering a major subject and an allied minor subject. The major subject (two-thirds) shall be graduate work, taken in one of the departments of the Arts, Philosophy and Science College. The minor subject (one-third) may be in graduate work.

2. The degree of Master of Science will be conferred upon candidates holding the degree of B. Sc. from the General Science Course of this University or from institutions making equivalent requirements for this degree, and also upon graduates from the College of Engineering of this University, upon the terms specified for the degree of Master of Arts; except that the major subject must be taken in one of the Departments of Science in the Arts, Philosophy and Science College. The minor subject must be in an allied Science.

3. The degree of Master of Arts will be conferred upon candidates holding the degree of B. A. or B. Ph. and the degree of Master of Science upon candidates holding the degree of B. Sc. from this University or from other institutions making equivalent requirements for these degrees, and the degree of Master of Science will be conferred on graduates from the College of Engineering of this University, on the completion, during not less than one year of residence of a course of study in one or more of the departments of the College of Arts, Philosophy and Science, not less than one-third of which course must be graduate work and not more than two-thirds may be such undergraduate work as is announced to be elective, such course to be subject to the approval of the Executive Committee of the Faculty of the College of Arts, Philosophy and Science. But a degree conferred under the provisions of this paragraph shall in no case be counted towards the degree of Doctor of Philosophy, or Doctor of Science.

4. With the consent of the Faculty the work of candidates for the Master's degree may be distributed over more than one year.

5. Each candidate for a Master's degree must also prepare and submit a thesis, and after its acceptance, be examined upon the work assigned him.

6. The degree of Ph. D. or of D. Sc. will be conferred upon holders of the appropriate baccalaureate degree from this University, or from other institutions making equivalent requirements for the first degree, upon the satisfactory completion of three years of resident graduate work in the Arts, Philosophy and Science College, including thesis and examinations. Holders of the degree of Master of Arts or Master of Science from this University, under the conditions prescribed in paragraph one or two, or from other institutions making equivalent requirements for these degrees, may receive the Doctor's degree on the satisfactory completion of two years of resident graduate work after obtaining the Master's degree. On approval of the Faculty, the work of the first year or of the first two years, of the three, may be done at another University which offers equivalent graduate work.

7. Candidates for the degree of Doctor of Science must take their work wholly in Science.

8. With the consent of the Faculty the work required of candidates for Doctor's degrees may be distributed over more than three years.

## FELLOWSHIPS

To encourage graduates of this University, and of other similar and approved institutions in this state, to continue their work and to complete the courses necessary to second (and other) degrees, the University authorities have established fellowships in several departments. These demand about one-half of the time of the fellow for laboratory instruction or other similar assistance—as far as possible,

along the line of his graduate study. The remainder of his time is given to graduate work. The fellowships pay from \$250 to \$300 for the University year.

Following are the fellowships for the academic year 1899-1900 as far as at present determined:

Anatomy and Physiology, Botany, Chemistry (two), American History and Political Science, Industrial Arts, Mathematics (two), Mechanical Engineering, Philosophy, Rhetoric and English Language, Veterinary Medicine.

In addition to these, Mr. Emerson McMillin has established two fellowships: one in Astronomy, \$300 for the academic year; and one in Economics, \$250 for the academic year. No service is required in these fellowships, and fellows are expected to give their entire time to their graduate work.

Correspondence should be directed to the Executive Office of the University.

### PRIZES

Through the generosity of Hon. William J. Bryan an annual prize of fifteen dollars is offered for the best essay on the principles underlying the form of government of the United States. Competition for this prize is open to all students of the University.

The Edward Thompson Company offer annually to the student writing the best essay on a legal theme selected by the Faculty of the College of Law, the second edition of the English and American Encyclopedia of Law: which includes about thirty volumes.

Other prizes are offered in special departments, for which see department circulars or the heads of the departments.



## COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE

FOR ADMISSION<sup>1</sup>

The following are the requirements:

1. *Arithmetic, Descriptive and Physical Geography, English Grammar, and United States History.*

2. *English (a)*—Composition and Rhetoric. Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of two essays of about two hundred words each. The first essay will be upon a subject drawn from the candidate's observation or experience. The second essay will be upon a subject drawn from the list of classics which will be furnished on application.

The proper preparation for this requirement is sustained and regular practice in writing. The pupil should be afforded weekly practice in preparing written exercises—paragraphs, outlines, themes, reproductions and abstracts; and his written work should be corrected by the teacher and revised and rewritten by himself. Scott and Denney's *Composition—Rhetoric* is recommended as a guide for this work.

The pupil should be familiarized with those principles of Rhetoric which are most likely to help him in his composition work; such as the principles of sentential structure, outlining, paragraphing, and choice of words. The study of specimens of bad English is not recommended; the time usually devoted to this may be better spent in memorizing and reciting notable passages of prose and poetry selected from works read entire by the class. Exercises in speaking from a topical outline previously prepared by the class are recommended for drill in expression and choice of words.

The subjects for the weekly written exercises should be so distributed that the pupil will have practice in four types—description, narration, exposition and argumentation. Some of these subjects should be taken from English and American classics, prescribed for parallel or subsidiary outside reading by the class; but fully one-half of the subjects upon which the pupil writes during his preparatory course should be drawn from his own observation and experience, especially subjects in description and narration.

(b) *English Classics*—Questions will be set for the purpose of testing the applicant's knowledge of the subject-matter, form and substance, of the following books; with the plot, purpose, literary style and peculiarities, incidents, and characters of which the applicant should make himself thoroughly familiar.

1899. Chaucer's *The Knight's Tale*, or Dryden's *Palamon and Arcite*; Milton's *Paradise Lost*, Books I and II; Pope's *Iliad*, Books I, VI, XXII and XXIV; The Sir Roger de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Cooper's *The Last of the Mohicans*; Lowell's *The Vision of Sir Launfal*; Hawthorne's *The House of Seven Gables*.

1900. Chaucer's *The Knight's Tale*, or Dryden's *Palamon and Arcite*; Milton's *Paradise Lost*, Books I and II; Pope's *Iliad*, Books I, VI, XXII and XXIV; The Sir Roger de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Cooper's *The Last of the Mohicans*; Macaulay's *Essay on Milton*; Burke's *Conciliation with the Colonies*.

1901. *Macbeth*; Burke's *Speech on Conciliation with the Colonies*; Macaulay's *Essays on Milton and Addison*; Milton's *Minor Poems (Comus, Lycidas, L'Allegro, Il Penseroso)*; Scott's *Ivanhoe*; Goldsmith's *The Vicar of Wakefield*; Tennyson's *Princess*; Coleridge's *The Ancient Mariner*; Lowell's *The Vision of Sir Launfal*.

These or equivalent texts will require minute and critical study in class during at least one school year. The test here is the pupil's ability to analyze plot and character; to explain words, phrases and figures; to reproduce thought, to point out characteristics of style. Systematic

<sup>1</sup> An applicant for admission who may be somewhat in arrears in any given subject, will find opportunity to make up his work in the Columbus High Schools, which are fully accredited by the University.



class-room study of the texts themselves is the only adequate preparation. Literary history, literary biography and the comments of professional critics will not serve the purpose. The work in class should be intensive and disciplinary; there the distinction between the reading of literature and the study of classics should be sharply defined. Outside reading of other works preferably by the same authors, is recommended, and should be prescribed as the basis of part of the composition work; but this general reading and composition work should not be regarded as an adequate substitute for the minute study of the few classics prescribed above, and will not be accepted as preparation for this part of the English requirement.

3. *Algebra* — Venable's Easy Algebra, complete.

4. *Botany* — Gray or Kellerman's Elementary Botany and Spring Flora, or equivalent.

7. *Latin* — Pronunciation (the Roman method): Grammar (an exact knowledge of the inflections is essential); Cæsar, the first four books of the *De Bello Gallico*.

Or *French* — The whole subject of French Grammar. Applicants will be expected to read at sight easy French and to translate correctly into French simple English sentences. Two years ought to be given to this study, the first year being spent mainly on the Grammar with easy reading; the second devoted to reading good modern French, with grammatical analysis and exercises in writing. The text read should be chiefly narrative and conversational prose; one or more prose comedies of the nineteenth (not the seventeenth) century should be included.

Or *German* — Joynes-Meissner's or Thomas' Grammar is recommended. The essentials in these grammars should have been mastered thoroughly, *i. e.*, declensions of nouns and adjectives, pronouns, comparison of adjectives, prepositions, regular and irregular verbs and essentials of syntax.

The following books or their equivalents must have been read (not less than 600 pages): Joynes's or Whitney's Reader, Hillern's Höher als die Kirche, Riehl's Der Fluch der Schönheit, Freytag's Die Verlorne Handschrift, Gerstäcker Irrfahrten.

For the present, the *German* or *French* required for admission may be begun at the University, but without University credits.

5. *Plane Geometry* — White, Venable, Wentworth, or Wells.

6. *Physics* — Gage, Carhart and Chute, Avery, or Appleton.

7. Either of the following:

*Civil Government* — Fisk or Thorpe preferred.

*History* — Myers's *General History*.

## COURSE IN AGRICULTURE

NOTE—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

## FIRST YEAR

REQUIRED		REQUIRED		REQUIRED	
FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1)	5.	Agr'l Chemistry (8)	5.	Agr'l Chemistry (9)	5.
Principles.		Organic.		Applications.	
Botany (6)	5.	Botany (7)	5.	Botany (8)	5.
Physiological.		Physiological and Economic.		Economic Botany and Vegetable Pathology.	
Drawing (10)	2.				
Rhetoric (5)	2½.	Rhetoric (5)	2½.	Rhetoric (5)	2½.
English Composition.		English Composition.		English Composition.	
		Shopwork (1)	3.		
Zoology (1)	3.	Zoology (1)	3.	Zoology (1)	3.
Invertebrate.		Invertebrate.		Vertebrate.	
Cadet Service (men).*		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

## SECOND YEAR

REQUIRED		REQUIRED		REQUIRED	
Agriculture (8)	4.	Agriculture (9)	4.	Agriculture (10)	4.
Breeds of Live Stock.		Principles of Breeding.		Stock Feeding.	
Agr'l Chemistry (4)	5.	Agr'l Chemistry (4)	5.	Agr'l Chemistry (4)	5.
Laboratory.		Laboratory.		Laboratory.	
Horticulture (1)	4.	Shopwork (2)	3.	Horticulture (1)	4.
Elements.		Physiology (1)	3.	Elements.	
Physiology (1)	3.	Physiology.		Physiology (1)	3.
Anatomy.		Zoology (4)	2.	Physiology.	
Zoology (4)	2.	Economic Entomology.		Zoology (4)	2.
Economic Entomology.		Cadet Service (men).		Economic Entomology.	
Cadet Service (men).		Hygiene and Physical Training (women).		Cadet Service (men).	
Hygiene and Physical Training (women).				Hygiene and Physical Training (women).	

## THIRD YEAR

REQUIRED		REQUIRED		REQUIRED	
Agriculture (11)	4.	Agriculture (12)	4.	Agriculture (13)	4.
Farm Equipment.		Soils.		Crops.	
†French (1)	} 4.	†French (1)	} 4.	Drawing (16)	3.
Elementary,		Elementary,		†French (1)	} 4.
or		or		Elementary,	
†German (1)	} 4.	†German (1)	} 4.	or	
Elementary.		Elementary.		†German (1)	} 4.
Geology (2)		Geology (2)		Elementary.	
General.	5.	General.	5.	Astronomy (3)	2.
Veterin'y Medicine (28)	5.	Veterin'y Medicine (28)	5.	Meteorology.	
Anatomy.		General Pathology.		Veterin'y Medicine (30)	5.
				Special Pathology.	

\* A rule of the Board of Trustees requires each male student (except students in the College of Law) to render two years' cadet service as a condition of graduation. Students physically incapacitated for cadet service will be assigned an equivalent in special gymnasium work. The President has authority to excuse from cadet service under certain conditions.

Young women are required to carry Hygiene and Physical Training in place of cadet service.

† Where credit is received for Elementary French or German, French (2) 4 hours or German (4) 4 hours is required.

## FOURTH YEAR

## REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agriculture (14)	4.	Agriculture (15)	4.	Agriculture (16)	4.
Animal Mechanics.		Dairy.		Rural Economics.	
History (5)	4.	History (5), Economics (2)	4.	Economics (2)	4.
U. S. Political.		Political Economy.			

## ELECTIVE

Ten hours a week through the year, including two hours for thesis, chosen from any of the courses given in any College of the University upon which the student is qualified to enter; except in the College of Law.

## THESIS

As a requisite for graduation each candidate must present an acceptable thesis embodying the results of a special research. The subject must be announced to the President of the University (dependent upon the written approval of the head of the department in which it lies) not later than the beginning of the second term of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

## COURSE IN HORTICULTURE AND FORESTRY

## FIRST YEAR

## REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1)	5.	Agr'l Chemistry (8)	5.	Agr'l Chemistry (9)	5.
Principles.		Organic.		Applications.	
Botany (6)	5.	Botany (7)	5.	Botany (8)	5.
Physiological.		Physiological, Economic.		Economic Botany.	
				Vegetable Pathology.	
Drawing (10)	2.				
Rhetoric (5)	2½.	Rhetoric (5)	2½.	Rhetoric (5)	2½.
English Composition.		English Composition.		English Composition.	
		Shopwork (1)	3.		
Zoology (1)	3.	Zoology (1)	3.	Zoology (1)	3.
Invertebrate.		Invertebrate.		Vertebrate.	
Cadet Service (men).		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical		Hygiene and Physical		Hygiene and Physical	
Training (women).		Training (women).		Training (women).	

## SECOND YEAR

REQUIRED					
FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (4)	5.	Agr'l Chemistry (4)	5.	Agr'l Chemistry (4)	5.
Laboratory.		Laboratory.		Laboratory.	
*French (1)	} 4.	French (1)	} 4.	French (1)	} 4.
Elementary		Elementary		Elementary	
or		or		or	
*German (1)	} 4.	German (1)	} 4.	German (1)	} 4.
Elementary.		Elementary.		Elementary.	
Horticulture (1)	4.	Shopwork (2)	3.	Horticulture (1)	4.
Elements.				Elements.	
Physiology (1)	3.	Physiology (1)	3.	Physiology (1)	3.
Anatomy.		Physiology.		Physiology.	
Zoology (4)	2.	Zoology (4)	2.	Zoology (4)	2.
Economic Entomology.		Economic Entomology.		Economic Entomology.	
Cadet Service (men).		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical		Hygiene and Physical		Hygiene and Physical	
Training (women).		Training (women).		Training (women).	

### THIRD YEAR

REQUIRED					
Agriculture (11)	4.	Agriculture (12)	4.	Agriculture (13)	4.
Farm Equipment.		Soils.		Crops.	
				Astronomy (3)	2.
				Meteorology.	
				Drawing (16)	3.
French (2)	} 4.	French (2)	} 4.	French (2)	} 4.
or		or		or	
German (4)		German (4)		German (4)	
Geology (2)		Geology (2)		Zoology (4)	
General.	5.	General.	5.	Economic Entomology.	
Horticulture (5)	4.	Horticulture (6)	4.	Horticulture (7)	4.
Pomology, Viticulture.		Vegetables and Nursery.		Small Fruits and Spraying.	

## FOURTH YEAR

REQUIRED					
Horticulture (8)	2.	Horticulture (9)	2.	Horticulture (10)	2.
Elementary Floriculture.		Commercial Floriculture.		Home Floriculture.	
Horticulture (11)	2.	Horticulture (12)	2.	Horticulture (13)	2.
Arboriculture.		Forestry.		Landscape Gardening.	
History (5)	4.	History (5), Economics (2)	4.	Economics (2)	4.
U. S. Political.		Political Economy.			

## ELECTIVE

Ten hours a week through the year, including two hours for thesis, chosen from any of the courses given in any College of the University upon which the student is qualified to enter; except in the College of Law.

## THESIS

As a requisite for graduation each candidate must present an acceptable thesis embodying the results of a special research. The subject must be announced to the President of the University (dependent upon the written approval of the head

\* Where credit is received for Elementary French or German, French (2) 4 or German (4) 4 is required.



of the department in which it lies) not later than the beginning of the second term of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

## COURSE IN DOMESTIC ECONOMY

### FIRST YEAR

REQUIRED		REQUIRED		REQUIRED	
FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1)	5.	Agr'l Chemistry (8)	5.	Agr'l Chemistry (9)	5.
Principles.		Organic.		Applications.	
Botany (6)	5.	Botany (7)	5.	Botany (8)	5.
Physiological.		Physiological and		Economic Botany,	
		Economic.		Vegetable Pathology.	
Drawing (1)	2.	Drawing (1)	2.	Drawing (1)	2.
Rhetoric (5)	2½.	Rhetoric (5)	2½.	Rhetoric (5)*	2½.
English Composition.		English Composition.		English Composition.	
Zoology (1)	3.	Zoology (1)	3.	Zoology (1)	3.
Invertebrate.		Invertebrate.		Invertebrate.	
Hygiene and Phys. Train.		Hygiene and Phys. Train.		Hygiene and Phys. Train.	

### SECOND YEAR

REQUIRED		REQUIRED		REQUIRED	
Agr'l Chemistry (4)	5.	Agr'l Chemistry (4)	5.	Physiology (3)	3.
Laboratory.*		Laboratory.*		Chemical Physiology.*	
Domestic Economy (1)	4.	Domestic Economy (2)	4.	Domestic Economy (3)	4.
Drawing	2.	Drawing	2.	Drawing (15)	2.
Mechanical.		Architectural.		House Designing.	
†French (1)	} 4.	French (1)	} 4.	French (1)	} 4.
Elementary,		Elementary,		Elementary,	
or		or		or	
†German (1)	} 4.	German (1)	} 4.	German (1)	} 4.
Elementary.		Elementary.		Elementary.	
Physiology (1)	3.	Physiology (1)	3.	Physiology (1)	3.
Hygiene and Phys. Train.		Hygiene and Phys. Train.		Domestic Economy (10)	1.
				Household Economics.	
				Hygiene and Phys. Train.	

### THIRD YEAR

REQUIRED		REQUIRED		REQUIRED	
Domestic Economy (4)	4.	Domestic Economy (5)	4.	Domestic Economy (6)	4.
French (2)	} 4.	French (2)	} 4.	French (2)	} 4.
or		or		or	
German (4)		German (4)		German (4)	
History (5)	4.	History (5)	4-2.	Economics (2)	4.
U. S. Political.		U. S. Political.		Political Economy.	
Education (1)	4.	Economics (2)		English Literature (2)	4.
		Political Economy.			
		Education (1)	4-2.		
		English Literature (2)	4-2.		

\* Specific laboratory work will be provided for students in this course, where necessary.

† Where credit is received for Elementary French or German, French (2) 4 hours or German (4) 4 hours is required.

## FOURTH YEAR

FIRST SEMESTER		Credit hours	SECOND SEMESTER		Credit hours
Major Study.		5.	Major Study.		5.
Electives.		10.	Electives.		10.

## THESIS

As a requisite for graduation each student must present an acceptable thesis embodying the results of a special research. The line of research must lie within the field of the major study, and is subject to the approval of the professor or professors having the major study in charge; and the student shall enter on this work not later than the beginning of the Senior year, and shall devote to it not less than two hours a week, or its equivalent, for one year, independently of his other work. The subject of thesis, together with a written approval of it by the professor or professors directing the investigation, must be submitted to the President of the University, not later than the beginning of the second semester of the fourth year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day. In case two or more students are pursuing the same major study, a joint research and thesis may be made.

## THE SPECIAL COURSES

## COURSE PREPARATORY TO LAW AND TO JOURNALISM

## FOR ADMISSION

The requirements for admission to any of the four year courses in the College of Arts, Philosophy and Science; except that the applicant must not be less than eighteen years of age.

## FIRST YEAR

English Literature (51)	4.	Economics (52)	4.
Introductory.		Elementary.	
French (51)	} 4.	French (52)	} 4.
Elementary		Prose and Plays	
or		or	
German (51)	} 4.	German (52)	} 4.
Elementary.		Prose and Plays.	
History (51)	3.	History (52)	3.
European.		European.	
Rhetoric (51)	2½.	Rhetoric (52)	2½.
English Composition.		English Composition.	
Science, Elective.	3.	Science, Elective.	3.
Cadet Service (men).		Cadet Service (men).	
Hygiene and Phys. Train. (women).		Hygiene and Phys. Train. (women).	

## SECOND YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
Economics (55)	2.	Economics (56)	2.
Practical Problems.		Industrial and Social Reforms. Principles.	
English Literature	2 or 3.	English Literature	2 or 3.
Elective.		Elective.	
History (53)	3.	History (54)	3.
England.		England.	
History (55)	4.	Rhetoric (54)	4.
United States.		Analysis and Prose.	
Philosophy (53)	3.	Philosophy (54)	3.
Psychology.		Logic.	
Rhetoric (55)	1.	Rhetoric (56)	1.
Newspaper work.		Newspaper work.	
Rhetoric (69)	2.	Rhetoric (70)	2.
History of English.		Development of Prose.	
Cadet Service (men).		Cadet Service (men).	
Hygiene and Phys. Train. (women).		Hygiene and Phys. Train. (women).	

NOTE — A student desiring to continue French or German may substitute French (55 and 56), or German (55 and 56), for four hours of the studies of the second year. The studies thus deferred must be taken in the third year.

## THIRD YEAR

Not less than sixteen nor more than seventeen hours a week, including studies deferred from the second year; selections to be made from the following, subject to the conditions named in the "Departments of Instruction." In view of the fact that this is a special course for special purposes, no substitutions or options further than those indicated below, will be permitted.

Economics (57)	2.	Economics (56)	2.
The Transportation Problem.		Money and Banking.	
English Literature	2 or 3.	English Literature	2 or 3.
Elective.		Elective.	
History (61)	2.	History (62)	2.
American History.		American History.	
Education (57)	2.	Education (54)	2.
History of Education in the United States.		History of Education in the United States.	
Philosophy (55)	3.	Philosophy (56)	3.
Ethics.		Modern.	
Political Science (51)	2.	Political Science (52)	2.
International Law.		Municipal Government.	
Political Science (53)	3.	Political Science (54)	3.
Institutions of the U. S.		Comparative Institutions.	
Rhetoric (57)	3.	Rhetoric (58)	3.
Brief Making and Argument.		Brief Making and Argument.	
Rhetoric (59)	2.	Rhetoric (60)	2.
Poetics and Verse Making.		Short Stories.	

## COURSE PREPARATORY TO THE STUDY OF MEDICINE

## FOR ADMISSION

Applicants must be at least seventeen years old, and must pass in *Grammar, Geography, Arithmetic, Algebra (through quadratics), Plane and Solid Geometry, Physics, Rhetoric, U. S. History, and Botany, and either Astronomy, Civil Government or General History.*

## FIRST YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
Botany (53)	4.	Botany (56) ( $\frac{1}{2}$ Semester)	1.
Systematic and Physiological.		Medical.	
Latin (59)	5.	Latin (60)	5.
Pharmaceutical.		Pharmaceutical.	
Physics (53)	3.	Physics (54)	3.
Mechanics, Heat, etc.		Electricity, Magnetism, etc.	
		Physics (60)	2.
		Laboratory.	
		Physiology (58) ( $\frac{1}{2}$ Semester)	1.
		Microscopy.	
Rhetoric (51)	2½.	Rhetoric (52)	2½.
English Composition.		English Composition.	
Zoology (51)	3.	Zoology (52)	3.
Comparative.		Comparative.	
Cadet Service (men).		Cadet Service (men).	
Hygiene and Phys. Train. (women).		Hygiene and Phys. Train. (women).	

## SECOND YEAR

French (51)	} 4.	French (52)	} 4.
Elementary		Prose and Plays	
or		or	
German (51)	} 3.	German (52)	} 3.
Elementary.		Elementary.	
Chemistry (51)	} 3.	Chemistry (52)	} 3.
Inorganic.		Inorganic.	
Physiology (51)	} 3.	Physiology (52)	} 3.
Human Anatomy.		Physiology.	
Rhetoric (63)	} 2.	Rhetoric (64)	} 2.
Advanced Rhetoric.		Advanced Rhetoric.	
Zoology (55)	} 5.	Zoology (56)	} 5.
Comparative Anatomy.		Comparative Anatomy.	
Cadet Service (men).		Cadet Service (men).	
Hygiene and Phys. Train. (women).		Hygiene and Phys. Train. (women).	

## THIRD YEAR

French (53)	} 2.	French (54)	} 2.
Science Reading		Science Reading	
or		or	
German (53)	} 4.	German (54)	} 3.
Science Reading.		Science Reading.	
Economics (51)	} 3.	Philosophy (54)	} 3.
Political Economy.		Logic and Ethics.	
Philosophy (53)	} 3.	Pharmacy (52)	} 5.
Psychology.		General Laboratory.	
Pharmacy (51)	} 5.	Physiology (56)	} 5.
General.		Laboratory.	
Physiology (55)			
Laboratory.			



## THE COLLEGE OF ENGINEERING

### FOR ADMISSION TO THE FOUR-YEAR COURSES, AND TO THE COURSE IN ARCHITECTURE

The following are the requirements:

1. *Arithmetic, Descriptive and Physical Geography, English Grammar, and United States History.*

2. *English (a)*—Composition and Rhetoric. Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of two essays of about two hundred words each. The first essay will be upon a subject drawn from the candidate's observation or experience. The second essay will be upon a subject drawn from the list of classics printed below.

The proper preparation for this requirement is sustained and regular practice in writing. The pupil should be afforded weekly practice in preparing written exercises—paragraphs, outlines, themes, reproductions and abstracts; and his written work should be corrected by the teacher and revised and rewritten by himself. Scott and Denney's *Composition—Rhetoric* is recommended as a guide for this work.

The pupil should be familiarized with those principles of Rhetoric which are most likely to help him in his composition work; such as the principles of sentential structure, outlining, paragraphing, and choice of words. The study of specimens of bad English is not recommended; the time usually devoted to this may be better spent in memorizing and reciting notable passages of prose and poetry selected from works read entire by the class. Exercises in speaking from a topical outline previously prepared by the class are recommended for drill in expression and choice of words.

The subjects for the weekly written exercises should be so distributed that the pupil will have practice in four types—description, narration, exposition and argumentation. Some of these subjects should be taken from the classics prescribed below, and other classics, preferably by the same authors, prescribed for parallel or subsidiary outside reading by the class; but fully one-half of the subjects upon which the pupil writes during the preparatory course should be drawn from his own observation and experience, especially subjects in description and narration.

(b) *English Classics*—Questions will be set for the purpose of testing the applicant's knowledge of the subject-matter, form and substance, of the following books; with the plot, purpose, literary style and peculiarities, incidents, and characters of which the applicant should make himself thoroughly familiar.

1899. Chaucer's *The Knight's Tale*, or Dryden's *Palamon and Arcite*; Milton's *Paradise Lost*, Books I and II; Pope's *Iliad*, Books I, VI, XXII and XXIV; The Sir Roger de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Cooper's *The Last of the Mohicans*; Lowell's *The Vision of Sir Launfal*; Hawthorne's *The House of Seven Gables*.

1900. Chaucer's *The Knight's Tale*, or Dryden's *Palamon and Arcite*; Milton's *Paradise Lost*, Books I and II; Pope's *Iliad*, Books I, VI, XXII and XXIV; The Sir Roger de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Cooper's *The Last of the Mohicans*; Macaulay's *Essay on Milton*; Burke's *Conciliation with the Colonies*.

1901. *Macbeth*; Burke's *Conciliation with the Colonies*; Macaulay's *Essays on Milton and Addison*; Milton's *Comus*, *Lycidas*, *L'Allegro and Il Penseroso*; Scott's *Ivanhoe*; Goldsmith's *The Vicar of Wakefield*; Tennyson's *Princess*; Coleridge's *The Ancient Mariner*; Lowell's *The Vision of Sir Launfal*.

These or equivalent texts will require minute and critical study in class during at least one school year. The test here is the pupil's ability to analyze plot and character; to explain words, phrases and figures; to reproduce thought, to point out characteristics of style. Systematic class-room study of the texts themselves is the only adequate preparation. Literary history,

literary biography and the comments of professional critics will not serve the purpose. The work in class should be intensive and disciplinary; there the distinction between the reading of literature and the study of classics should be sharply defined. Outside reading of other works preferably by the same authors, is recommended, and should be prescribed as the basis of part of the composition work; but this general reading and composition work should not be regarded as an adequate substitute for the minute study of the few classics prescribed above, and will not be accepted as preparation for this part of the English requirement.

3. *Algebra* — Taylor's Academic or equivalent.

4. *Civil Government* — Fiske or Thorpe preferred.

5. *Geometry, Plane and Solid* — Venable, Wentworth, White, or Wells.

6. *History* — Myers's General History.

7. *Latin* — Pronunciation (the Roman method); Grammar (an exact knowledge of the inflections is essential), Cæsar, the first four books of the *De Bello Gallico*.

Or *French* — The whole subject of French Grammar. Applicants will be expected to read at sight easy French and to translate correctly into French simple English sentences. Two years ought to be given to this study, the first year being spent mainly on the Grammar with easy reading; the second devoted to reading good modern French, with grammatical analysis and exercises in writing. The text read should be chiefly narrative and conversational prose; one or more prose comedies of the nineteenth (not the seventeenth) century should be included.

Or *German* — Joynes-Meissner's or Thomas' Grammar is recommended. The essentials in these grammars should have been mastered thoroughly, *i. e.*, declensions of nouns and adjectives, pronouns, comparison of adjectives, prepositions, regular and irregular verbs and essentials of syntax.

The following books or their equivalents must have been read (not less than 600 pages): Joynes's or Whitney's Reader, Hillern's Höher als die Kirche, Riehl's Der Fluch der Schönheit, Freytag's Die Verlorne Handschrift, Gerstäcker Irrfahrten.

For the year 1899-1900 the German or French required for admission may be begun at the University, but without University credits.

8. *Physics* — Gage, Carhart and Chute, Avery or Appleton, complete.

NOTE — An applicant for admission who may be somewhat in arrears in any given subject, will find opportunity to make up this work in the Columbus High Schools, which are fully accredited by the University.

No student will be admitted to the College of Engineering who is in arrears more than fifteen hours, of which not more than five hours may be in Mathematics.

## COURSE IN CIVIL ENGINEERING

This course is arranged for students expecting to become surveyors or civil engineers. The plan of the course is to give (1) a thorough training in mathematics and mechanics, (2) the general principles underlying all branches of civil engineering, (3) the application of the general principles to the several branches of civil engineering. The subjects of land, railroad and topographical surveying are important features, and students can at once begin practical work. In the engineering work special attention is given to iron and steel bridge work, masonry construction and cement testing, road and railroad building and maintenance, water supply and the subject of the collection and disposal of sewage.

## FIRST YEAR

NOTE—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1)	2.	Drawing (1)	2.	Drawing (2)	3.
Freehand.		Freehand.		Lettering.	
French (1)	} 4.	French (1)	} 4.	French (1)	} 4.
or		or		or	
German (1)		German (1)		German (1)	
Chemistry (7)	5.	Chemistry (7)	5.	Metallurgy (2)	3.
Inorganic.		Inorganic.		Mineralogy.	
Mathematics (14)	5.	Mathematics (15), (16)	2, 3.	Mathematics (17)	5.
Trigonometry.		Trigonometry, Algebra.		Plane Analytics.	
Rhetoric (5)	2½.	Rhetoric (5)	2½.	Rhetoric (5)	2½.
English Composition.		English Composition.		English Composition.	
Cadet Service.		Cadet Service.		Cadet Service.	

## SECOND YEAR

Civil Engineering (1)	6.	Civil Engineering (4)	4.	Civil Engineering (2)	6.
Surveying.		C. E. Drawing.		Surveying.	
Drawing (3)	8.	Drawing (3)	5.	Drawing (3)	3.
Projections.		Descriptive Geometry.		Shades, Shadows & Per.	
Mathematics (18)	5.	Mathematics (19)	5.	Mathematics (20)	5.
Space Anal. & Calculus.		Calculus.		Calculus.	
Physics (2)	3.	Physics (2)	3.	Physics (2)	3.
Mechanics and Heat.		Electricity & Magnetism.		Light and Sound.	
Cadet Service.		Cadet Service.		Cadet Service.	

## SUMMER COURSE

Civil Engineering (22). Four weeks—six days per week. Field work in surveying and railroad construction.

## THIRD YEAR

Civil Engineering (3)	4.	Civil Engineering (5)	3.	Astronomy (2)	4.
Surveying.		C. E. Drawing.		Mathematical.	
Mathematics (8)	2.	Civil Engineering (6)	4.	Civil Engineering (7)	5.
Least Squares.		Stereotomy.		Bridge Strains.	
Geology (2)	5.	Geology (2)	5.	Drawing (7)	2.
General.		General.		Photography.	
Mech. Engineering (6)	5.	Mech. Engineering (6)	5.	Mech. Engineering (7)	5.
Mechanics.		Mechanics.		Strength of Materials.	
Rhetoric (3)	2.	Rhetoric (3)	2.	Rhetoric (3)	2.
Advanced.		Advanced.		Advanced.	

## SUMMER COURSE

Civil Engineering (23). Four weeks—six days per week. Field work in railroad and topographic surveying.

## FOURTH YEAR

Astronomy (2)	4.	Civil Engin'g (16) or (17)	5.	Civil Engineering (10)	5.
Mathematical.		Masonry, Railways.		Sanitary Engineering.	
		Civil Engineering (14)	2.	Law of Contracts	4.
		Testing Laboratory.			
Civil Engineering (8)	5.	Civil Engineering (18)	5.		
Bridge Designing.		Water Supply.			
Civil Engineering (15)	5.	Elec. Engineering.		Geology (3)	3.
Masonry.		Lectures (6)	2.	Economic.	
Elec. Engineering.		Laboratory (7)	2.		
Lectures (6)	2.	Mech. Engineering (17)	3.	Mech. Engineering (25)	3.
Laboratory (7)	2.	Laboratory.		Laboratory.	

## \*VOLUNTARY

\* French (3), two hours; or German (2), two hours; or Rhetoric (4), two hours; each for the year.

## THESIS

As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of this study must lie within the field of Civil Engineering. The subject must be announced to the President of the University (dependent upon the approval of the head of the department) not later than the beginning of the second term of the fourth year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

## COURSE IN MINE ENGINEERING

This Course is arranged for students intending to become mining engineers and surveyors, metallurgical or technical chemists. The plan of work, therefore, while keeping mathematics, drawing and engineering prominent, also provides extended work in applied chemistry, chemical analysis, assaying, mineralogy, geology, and surveying with especial application to mines and underground work, while the treatment of ores, both mechanical in ore dressing and chemical in metallurgy, forms an important feature.

NOTE—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

## FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1)	2.	Drawing (1)	2.	Drawing (2)	3.
Freehand.		Freehand.		Lettering.	
French (1)	} 4.	French (1)	} 4.	French (1)	} 4.
or		or		or	
German (1)		German (1)		German (1)	
Chemistry (7)	5.	Chemistry (7)	5.	Metallurgy (2)	3.
Inorganic.		Inorganic.		Mineralogy.	
Mathematics (14)	5.	Mathematics (15), (16)	2, 3.	Mathematics (17)	5.
Trigonometry.		Trigonometry, Algebra.		Plane Analytics.	
Rhetoric (5)	2½.	Rhetoric (5)	2½.	Rhetoric (5)	2½.
English Composition.		English Composition.		English Composition.	
Cadet Service.		Cadet Service.		Cadet Service.	

## SECOND YEAR

Drawing (3)	3.	Drawing (3)	3.	Drawing (3)	3.
Projections.		Descriptive Geometry.		Shades, Shadows & Per.	
Mathematics (18)	5.	Mathematics (19)	5.	Mathematics (20)	5.
Analytics and Calculus.		Calculus.		Calculus.	
Metallurgy (5)	5.	Metallurgy (5)	5.	Metallurgy (5)	5.
Laboratory.		Laboratory.		Laboratory.	
Physics (2)	3.	Physics (2)	3.	Physics (2)	3.
Mechanics and Heat.		Electricity & Magnetism.		Light and Sound.	
Shopwork (7)	2.	Shopwork (11)	2.	Shopwork (4)	2.
Carpentry and		Forging.		Chipping and Filing.	
Pattern-making.					
Cadet Service.		Cadet Service.		Cadet Service.	

## VOLUNTARY

French (3)	2.	or German (2)	2.	or Rhetoric (4)	2.
Each for the year.					



## THIRD YEAR

FIRST TERM		Credit	SECOND TERM		Credit	THIRD TERM		Credit
	hours			hours			hours	
Mech. Engineering (6)	5.		Mech. Engineering (6)	5.		Mech. Engineering (7)	5.	
Mechanics.			Mechanics.			Strength of Materials.		
Metallurgy (4)	5.		Metallurgy (4)	5.		Civil Engineering (19)	5.	
Fuels and Iron.			Steel, Copper, Gold, etc.			Bridge Strains.		
Mine Engineering (4)	5.		Metallurgy (6)	5.		Metallurgy (3)	5.	
Mine Surveying.			Assaying.			Deter. Mineralogy.		
Rhetoric (3)	2.		Rhetoric (3)	2.		Rhetoric (3)	2.	
Advanced.			Advanced.			Advanced.		

## FOURTH YEAR

Elec. Engineering.			Elec. Engineering.			Geology (3)	5.	
Lectures (6)	2.		Lectures (6)	2.		Economic.		
Laboratory (7)	2.		Laboratory (7)	2.				
Geology (2)	5.		Geology (2)	5.		Mine Engineering (6)	5.	
General.			General.			Plans and Specifications.		
Mine Engineering (5)	5.		Metallurgy (7)	3.		Mine Engineering (5)	5.	
Mine Engineering.			Metal. Construction.			Mine Engineering.		
Metallurgy (8)	2.		Mine Engineering (5)	5.		Drawing (7)	2.	
Ore Dressing.			Mine Engineering.			Photography.		

## THESIS

As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of such study must lie within the field of Metallurgy or of Mine Engineering. The subject must be announced to the President of the University (dependent upon the written approval of the head of the department) not later than the beginning of the second term of the fourth year; and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

## COURSE IN MECHANICAL ENGINEERING

This Course has for its object the qualifying of men for the mechanical engineering profession. It aims to embrace preparation for such lines of pursuit as the successful management of machinery in manufacturing establishments; the superintendence of construction; the designing and laying out of machinery plants for mills and factories; the construction of machines for particular purposes, and the designing and drawing of the same, the making of calculations respecting strength, shocks, proportion, endurance, and suitability of material for specific purposes.

NOTE—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

## FIRST YEAR

Drawing (1)	2.	Drawing (1)	2.	Drawing (2)	3.
Freehand.		Freehand.		Lettering.	
French (1)	} 4.	French (1)	} 4.	French (1)	} 4.
or		or		or	
German (1)		German (1)		German (1)	
Chemistry (7)	5.	Chemistry (7)	5.	Shopwork (7)	4.
Inorganic.		Inorganic.		Carpentry & Pat'n Mak'g	
Mathematics (14)	5.	Mathematics (15), (16)	2, 3.	Mathematics (17)	5.
Trigonometry.		Trigonometry, Algebra.		Plane Analytics.	
Rhetoric (5)	2½.	Rhetoric (5)	2½.	Rhetoric (5)	2½.
English Composition.		English Composition.		English Composition.	
Cadet Service.		Cadet Service.		Cadet Service.	

## SECOND YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (3)	3.	Drawing (3)	3.	Drawing (3)	3.
Projections.		Descr. Geometry.		Shades, Shadows & Per.	
Mathematics (18)	5.	Mathematics (19)	5.	Mathematics (20)	5.
Analytics and Calculus.		Calculus.		Calculus.	
Physics (2)	3.	Physics (2)	3.	Physics (2)	3.
Mechanics and Heat.		Electricity & Magnetism.		Sound and Light.	
Shopwork (11)	3.	Physics (7)	2.	Physics (7)	3.
Forging.		Laboratory.		Laboratory.	
Rhetoric (3)	2.	Rhetoric (3)	2.	Rhetoric (3)	2.
Advanced.		Advanced.		Advanced.	
Shopwork (3)	2.	Shopwork (4)	3.	Shopwork (13)	3.
Foundry.		Chipping and Filing.		Machine work.	
Cadet Service.		Cadet Service.		Cadet Service.	

## VOLUNTARY

French (3)	2.	or German (2)	2.	or Rhetoric (4)	2.
		Each for the year.			

## THIRD YEAR

Drawing (5)	3.	Mech. Engineering (6)	5.	Drawing (7)	2.
Technical.		Mechanics.		Photography.	
Mathematics (11)	1.	Mech. Engineering (22)	3.	Civil Engineering (19)	5.
Differential Equations.		Timber and Masonry.		Bridge Strains.	
Mech. Engineering (6)	5.	Mech. Engineering (3)	5.	Mech. Engineering (7)	5.
Mechanics.		Mechanism.		Strength of Materials.	
Metallurgy (4)	5.	Metallurgy (4)	2.		
Fuels and Iron.		Steel.			
Shopwork (14)	3.	Shopwork (15)	4.	Mech. Engineering (3)	2.
Machine Work.		Advanced Machine		Mechanism.	
Mech. Engineering (12)	2.	Work.		Industrial Arts (6)	5.
Laboratory.				Machine Design.	

## FOURTH YEAR

Elec. Engineering.		Elec. Engineering.		Industrial Arts (5)	3.
Lectures (6)	2.	Lectures (6)	2.	Shop Appliances.	
Laboratory (7)	2.	Laboratory (7)	2.		
Mech. Engineering (13)	4.			Mech. Engineering (10)	5.
Laboratory.				Steam Boilers.	
Mech. Engineering (8)	5.	Mech. Engineering (9)	5.	Mech. Engineering (15)	3.
Thermodynamics.		Prime Movers.		Laboratory.	
		Mech. Engineering (14)	4.	Mech. Engineering (20)	2.
		Laboratory.		Hydraulic Mach.	
Mech. Engineering (18)	5.	Mech. Engineering (18)	5.	Mech. Engineering (21)	5.
Mach. Design.		Mach. Design.		Thesis Work.	

## THESIS

As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of such study must lie within the field of Mechanical Engineering. The subject must be announced to the President of the University (dependent upon the written approval of the head of the department) not later than the beginning of the second term of the fourth year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

## COURSE IN ELECTRICAL ENGINEERING

The object of this Course is to prepare students for the various pursuits in which the applications of electricity are prominent. Physics, especially theoretical and applied electricity, and mechanical engineering are naturally the leading subjects of the Course. General theory is treated in ample breadth, and is tested by experiments in well equipped laboratories. The laboratories are so conducted as to afford the student a degree of facility in the use of instruments and machinery only acquired by continued practice.

NOTE—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

## FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1)	2.	Drawing (1)	2.	Drawing (2)	3.
Freehand.		Freehand.		Lettering.	
French (1)	} 4.	French (1)	} 4.	French (1)	} 4.
or		or		or	
German (1)		German (1)		German (1)	
Chemistry (7)	5.	Chemistry (7)	5.	Shop Work (7)	4.
Inorganic.		Inorganic.		Carpentry & Pat'n Mak'g	
Mathematics (14)	5.	Mathematics (15), (16)	2, 3.	Mathematics (17)	5.
Trigonometry.		Trigonometry, Algebra.		Plane Analytics.	
Rhetoric (5)	2½.	Rhetoric (5)	2½.	Rhetoric (5)	2½.
English Composition.		English Composition.		English Composition.	
Cadet Service.		Cadet Service.		Cadet Service.	

## SECOND YEAR

Drawing (3)	3.	Drawing (3)	3.	Drawing (3)	3.
Projections.		Descriptive Geometry.		Shade, Shadows and Per.	
Mathematics (18)	5.	Mathematics (19)	5.	Mathematics (20)	5.
Analytics and Calculus.		Calculus.		Calculus.	
Physics (2)	3.	Physics (2)	3.	Physics (2)	3.
Mechanics.		Electricity, Magnetism.		Light, Sound.	
Physics (3)	2.	Physics (3)	2.	Physics (3)	2.
Problems.		Problems.		Problems.	
Shopwork (11)	2.	Physics (5)	4.	Physics (5)	4.
Forging.		Laboratory.		Laboratory.	
Rhetoric (3)	2.	Rhetoric (3)	2.	Rhetoric (3)	2.
Advanced.		Advanced.		Advanced.	
Shopwork (4)	2.				
Chipping and Filing.					
Cadet Service.		Cadet Service.		Cadet Service.	

## VOLUNTARY

French (3)	2.	or German (2)	2.	or Rhetoric (4)	2.
		Each for the year.			

## THIRD YEAR

Drawing (5)	3.	Mech. Engineering (3)	5.	Industrial Arts (6)	5.
Technical.		Mechanism.		Machine Design.	
Mathematics (11)	1.	Mech. Engineering (6)	5.	Mech. Engineering (16)	4.
Differential Equations.		Mechanics.		Laboratory.	
Mech. Engineering (6)	5.	Physics (6)	5.	Mech. Engineering (7)	5.
Mechanics.		Laboratory.		Strength of Materials.	
Physics (6)	3.	Shopwork (14)	3.	Physics (6)	5.
Laboratory.		Machine Work.		Laboratory.	
Physics (4)	3.				
Electricity & Magnetism.					
Shopwork (13)	3.				
Machine Work.					

## FOURTH YEAR

FIRST TERM		Credit	SECOND TERM		Credit	THIRD TERM		Credit
		hours			hours			hours
Elec. Engineering (2)		5.	Elec. Engineering (2)		5.	Elec. Engineering (2)		5.
Elec. Machinery.			Elec. Machinery.			Elec. Machinery.		
Elec. Engineering (3)		3.	Elec. Engineering (3)		3.	Elec. Engineering (3)		3.
Designing and Drawing.			Designing and Drawing.			Designing and Drawing.		
Elec. Engineering (4)		5.	Elec. Engineering (4)		5.	Elec. Engineering (4)		5.
Laboratory.			Laboratory and Thesis.			Laboratory and Thesis.		
Mech. Engineering (8)		5.	Mech. Engineering (9)		5.	Mech. Engineering (10)		5.
Thermodynamics.			Prime Movers.			Steam Boilers.		

## THESIS

As a requisite for graduation, each candidate must present an acceptable thesis, embodying the result of a special study. The subject of such study must lie within the field of Electrical Engineering. The subject must be announced to the President of the University (dependent upon the written approval of the head of the Department) not later than the beginning of the second term of the fourth year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

## COURSE IN CERAMICS

This Course is designed to create a class of engineers who shall be fitted to render to the Clay, Glass and Cement Industries, the same kind of services which have long been rendered to Mining and Metallurgical Industries by graduates of Schools of Mines.

The problems of the Ceramic Industries are not unlike those of the Mining Industries, either in kind or in adaptation to methods of technical control; but the information and scientific equipment necessary to solve these problems successfully are peculiar to those industries alone, and in the past have received little or no attention from technical schools in this country.

This course is offered with the hope of filling this long standing gap in the scheme of engineering education in this country. It is essentially an Engineering Course, following closely the lines of the other engineering courses, up to the end of the second year. In the last two years, the training specializes along the lines of Ceramics and of the application of Chemistry to this subject.

NOTE—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

## FIRST YEAR

Drawing (1)	2.	Drawing (1)	2.	Drawing (2)	3.
Freehand.		Freehand.		Lettering.	
Chemistry (7)	5.	Chemistry (7)	5.	Metallurgy (2)	3.
Inorganic.		Inorganic.		Mineralogy.	
German (1) or (4)	4.	German (1) or (4)	4.	German (1) or (4)	4.
Mathematics (14)	5.	Mathematics (15), (16)	2, 3.	Mathematics (17)	5
Trigonometry.		Trigonometry, Algebra.		Plane Analytics.	
Rhetoric (5)	2½.	Rhetoric (5)	2½.	Rhetoric (5)	2½.
English Composition.		English Composition.		English Composition.	
Cadet Service.		Cadet Service.		Cadet Service.	



## SECOND YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Ceramics (1)	5.	Ceramics (2)	5.	Ceramics (3)	5.
Laboratory.		Laboratory.		Laboratory.	
Drawing (3)	3.	Drawing (3)	3.	Drawing (3)	3.
Projections.		Descriptive Geometry.		Shades, Shadows & Per.	
Mathematics (18)	5.	Mathematics (19)	5.	Mathematics (20)	5.
Analytics and Calculus.		Calculus.		Calculus.	
Physics (2)	3.	Physics (2)	3.	Physics (2)	3.
Mechanics and Heat.		Electricity & Magnetism.		Light and Sound.	
Shopwork (7)	2.	Shopwork (11)	2.	Shopwork (4)	2.
Woodwork.		Forging.		Chipping and Filing.	
Cadet Service.		Cadet Service.		Cadet Service.	

## VOLUNTARY

French (3)	2.	or German (2)	2.	or Rhetoric (4)	2.
		Each through the year.			

## THIRD YEAR

Ceramics (4)	5.	Ceramics (5)	5.	Ceramics (6)	5.
General Principles.		Bricks.		Pottery.	
Mine Engineering (4)	5.	Ceramics (7)	5.	Ceramics (8)	5.
Mine Surveying.		Advanced Chemical		Advanced Chemical	
		Laboratory Work.		Laboratory Work.	
Mech. Engineering (6)	5.	Mech. Engineering (6)	5.	Mech. Engineering (7)	5.
Mechanics.		Mechanics.		Strength of Materials.	
Rhetoric (3)	2.	Rhetoric (3)	2.	Rhetoric (3)	2.
Advanced.		Advanced.		Advanced.	

## FOURTH YEAR

Ceramics (9)	5.	Ceramics (10)	5.	Ceramics (11)	5.
Manufacture of Bodies.		Glasses and Glazes.		Enamels and Colors.	
Drawing (7)	2.	Ceramics (12)	5.		
Photography.		Cement.			
Geology (2)	5.	Ceramics (13)	2.	Ceramics (15)	5.
General.		Ceramic Construction.		Thesis Work.	
Metallurgy (4)	5.	Ceramics (14)	5.	Geology (3)	5.
Fuels and Iron.		Reports on Clay Prop.		Economic.	

## THESIS

As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of this study must lie within the field of Ceramic Engineering. The subject must be announced to the President of the University (dependent upon the approval of the head of the Department), not later than the beginning of the second term of the fourth year; and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

## COURSE IN INDUSTRIAL ARTS

This course is designed to furnish a strong basis for those wishing to become teachers of Manual Training, and for those intending to enter the various branches of manufacture and industry, not as engineers, but as practical managers, superintendents or business men. The required part of the course combines with a general science training a large amount of drawing and shop work, in which the underlying principles and methods employed in various branches of industry are

dwelt on. Large liberty of election of studies is allowed the student. His election, properly exercised, together with the required work will equip the student for a wide range of occupations along the lines stated. The aim of the course is educational as well as professional, the training of the mind and hand together.

NOTE—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

## FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1)	2.	Drawing (1)	2.	Drawing (2)	3.
Freehand.		Freehand.		Lettering.	
Chemistry (7)	5.	Chemistry (7)	5.	Metallurgy (2)	3.
Inorganic.		Inorganic.		Mineralogy.	
Mathematics (14)	5.	Mathematics (15), (16)	2, 3.	Mathematics (17)	5.
Plane Trigonometry.		Trigonometry, Algebra.		Plane Analytics.	
Rhetoric (5)	2½.	Rhetoric (5)	2½.	Rhetoric (5)	2½.
English Composition.		English Composition.		English Composition.	
Shopwork (7)	3.	Shopwork (8)	3.	Shopwork (9)	3.
Carpentry and		Carpentry Cabinet Work.		Advanced Pattern	
Pattern Making.				Making.	
Cadet Service.		Cadet Service.		Cadet Service.	

## SECOND YEAR

Drawing (3)	3.	Drawing (3)	3.	Drawing (3)	3.
Projections.		Descriptive Geometry.		Shades, Shadows & Per.	
Physics (2)	3.	Physics (2)	3.	Physics (2)	3.
Mechanics and Heat.		Electricity.		Sound and Light.	
Rhetoric (3)	2.	Rhetoric (3)	2.	Rhetoric (3)	2.
Advanced.		Advanced.		Advanced.	
Shopwork (3)	3.	Shopwork (11)	3.	Shopwork (12)	3.
Foundry.		Forging.		Advanced Forging.	
Cadet Service.		Cadet Service.		Cadet Service.	

Electives, six to eight hours—any work upon which the student is qualified to enter, in any College except the College of Law.

## THIRD YEAR

Drawing (5)	3.	Industrial Arts (2)	3.	Industrial Arts (2)	3.
Technical.		Technical Drawing.		Technical Drawing.	
Industrial Arts (1)	3.	Industrial Arts (1)	3.	Industrial Arts (1)	3.
Tools and Machines.		Tools and Machines.		Tools and Machines.	
Shopwork (4)	3.	Shopwork (13)	3.	Shopwork (14)	3.
Chipping and Filing.		Machine work.		Machine work.	

Electives, eight to ten hours—any work upon which the student is qualified to enter, in any College except the College of Law.

## FOURTH YEAR

Industrial Arts (3)	3.	Industrial Arts (3)	3.	Industrial Arts (3)	3.
Shop Equipment.		Shop Appliances.		Shop Management.	
Industrial Arts (4)	3.	Industrial Arts (4)	3.	Industrial Arts (4)	3.
Technical Drawing.		Technical Drawing.		Technical Drawing.	
Shopwork (15)	3.	Shopwork (16)	3.	Shopwork (17)	3.
Advanced Machine		Advanced Machine		Advanced Machine	
Work.		Work.		Work.	

Electives, eight to ten hours—any work upon which the student is qualified to enter, in any College except the College of Law.

## THESIS

As a requisite for graduation, each candidate must present an acceptable thesis embodying the results of a special study. The subject of such study must

lie within the field of Industrial Arts. The subject must be announced to the President of the University (dependent upon the written approval of the head of the Department), not later than the beginning of the second term of the fourth year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

### COURSE IN CHEMISTRY

The object of this Course is to prepare students for work in Industrial Chemistry or Metallurgical Chemistry, according to electives chosen. With proper electives it will also be found a desirable course for students expecting to become general analytical chemists.

The electives are subject to the approval of the head of the department of Chemistry, or of Metallurgy and Mineralogy for students in Metallurgical Chemistry.

NOTE — The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

#### FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1)	2.	Drawing (1)	2.	Drawing (2)	3.
Freehand.		Freehand.		Lettering.	
Chemistry (7)	5.	Chemistry (7)	5.	Chemistry (12)	5.
Inorganic.		Inorganic.		Inorganic.	
German (1) or (4)	4.	German (1) or (4)	4.	German (1) or (4)	4.
Mathematics (14)	5.	Mathematics (15), (16)	5.	Mathematics (17)	5.
Trigonometry.		Trigonometry, Algebra.		Plane Analytics.	
Rhetoric (5)	2½.	Rhetoric (5)	2½.	Rhetoric (5)	2½.
English Composition.		English Composition.		English Composition.	
Cadet Service.		Cadet Service.		Cadet Service.	

#### SECOND YEAR

Chemistry (4)	5.	Chemistry (4)	5.	Chemistry (4)	5.
Quantitative.		Quantitative.		Quantitative.	
German (2)	2.	German (2)	2.	German (2)	2.
Scientific Reading.		Scientific Reading.		Scientific Reading.	
Physics (2)	3.	Physics (2)	3.	Physics (2)	3.
Mechanics and Heat.		Electricity & Magnetism.		Sound and Light.	
Shopwork (7)	3.	Shopwork (11)	3.	Metallurgy (2)	3.
Woodwork.		Forging.		Mineralogy.	
Cadet Service.		Cadet Service.		Cadet Service.	

Electives three to five hours throughout the year.

The following are suggested: Mathematics (18, 19, 20), 5 hours; Drawing (3), 3 hours; Physiology (3), 3 hours; History (5), 4 hours; Economics (1), 4 hours.

#### THIRD YEAR

Chemistry (8)	5.	Chemistry (9)	5.	Chemistry (9)	5.
Organic.		Organic.		Organic.	
Metallurgy (5)	5.	Metallurgy (6)	5.	Metallurgy (5)	5.
Laboratory.		Assaying.		Laboratory.	
Rhetoric (3)	2.	Rhetoric (3)	2.	Rhetoric (3)	2.
Advanced.		Advanced.		Advanced.	

Electives five to eight hours throughout the year.

The following are suggested: Physical Laboratory, 3 to 5 hours; Geology, 5 hours — or Geology and Determinative Mineralogy, 5 hours; Shopwork, 3 hours.

## FOURTH YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Chemistry (17)	4.	Chemistry (14)	3.	Chemistry (15)	4.
Inorganic Preparations.		Theoretical.		Sanitary.	
Metallurgy (4)	5.	Chemistry (16)	3.	Ceramics (16)	3.
Fuels and Iron.		Applied.		Applied.	
		Physiology (8)	2.		
		Bacteriology.			

Electives to make the total work equal sixteen or eighteen hours, including thesis work.

Students in Metallurgical Chemistry will take Ore Dressing the first term, and Metallurgy (4) 5, through the second term. For such students Chemistry (14, 15, 16) and Physiology (8) will not be compulsory.

## THESIS

As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of the study must lie within the field of Chemistry or Metallurgy. The subject must be announced to the President of the University (dependent upon the approval of the head of the department), not later than the beginning of the second term of the fourth year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

## COURSE IN ARCHITECTURE

This Course was established in 1896, to meet a growing demand for special training along this line. The extremely rapid developments, in late years, of novel methods of construction, the constantly extending list of materials used, and the creations of types of buildings entirely without precedent in the history of architecture, render it not only desirable, but imperative, that a large class of thoroughly trained and equipped men shall be brought forward, if this progress is to be maintained.

The employment in architecture of so many young men trained in other branches of engineering seems to prove the urgent need of those whose training is directed expressly to this end.

The Course offered gives a good training in mathematics, physics and mechanics, which are fundamental, together with a thorough drill in drawing, designing, shopwork, and the more technical branches of architecture proper.

NOTE—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

## FIRST YEAR

Drawing (1)	3.	Drawing (1)	3.	Drawing (1)	3.
Freehand.		Freehand.		Water Color.	
Chemistry (7)	5.	Chemistry (7)	5.	Drawing (2)	3.
Inorganic.		Inorganic.		Lettering.	
Mathematics (14)	5.	Mathematics (15), (16)	2, 3.	Mathematics (17)	5.
Plane Trigonometry.		Trigonometry, Algebra.		Plane Analytics.	
Rhetoric (5)	2½.	Rhetoric (5)	2½.	Rhetoric (5)	2½.
English Composition.		English Composition.		English Composition.	
Shop Work (7)	3.	Shop Work (8)	3.	Shop Work (10)	3.
Carpentry and		Carpentry Cabinet Work.		Carpentry Building.	
Pattern Making.					
Cadet Service.		Cadet Service.		Cadet Service.	



## SECOND YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (7)	2.	Architecture (1)	5.	Architecture (2)	5.
Photography.		Orders.		Styles.	
Drawing (3)	3.	Drawing (3)	5.	Drawing (3)	5.
Projections.		Descriptive Geometry.		Shades, Shadows & Per.	
Drawing (14)	2.	Drawing (12)	2.	Drawing (12)	2.
Pen.		Clay Modeling.		Clay Modelling.	
Greek (1)	2.	Greek (1)	2.	Greek (1)	2.
Ancient Art.		Ancient Art.		Ancient Art.	
Physics (2)	3.	Physics (2)	3.	Physics (2)	3.
Mechanics and Heat.		Electricity & Magnetism.		Light and Sound.	
Mechanical Eng. (23)	5.				
Materials of Construct'n.					
Cadet Service.		Cadet Service.		Cadet Service.	

## THIRD YEAR

Architecture (3)	5.	Architecture (3)	5.	Architecture (3)	5.
Designing.		Designing.		Designing.	
Architecture (4)	2.	Architecture (5)	3.	Architecture (6)	4.
Specifications.		Decorations.		Estimates.	
Civil Engineering (15)	5.	Architecture (7)	5.	Architecture (8)	5.
Masonry.		Heating.		Designing.	
Civil Engineering (20)	5.	Civil Engineering (6)	4.	Civil Engineering (21)	3.
Roof Trusses.		Stereotomy.		Surveying.	

### REQUIREMENTS FOR ADMISSION TO THE SHORT COURSES IN MINING, IN CLAY-WORKING AND CERAMICS, AND IN INDUSTRIAL ARTS

Applicants must not be less than sixteen years of age; and unless they are over twenty-one years of age must pass an examination in Arithmetic, Geography, Grammar and Orthography, or bring High School or other certificates for these branches.

Applicants who are over twenty-one years of age are admitted without examination.

#### SHORT COURSE IN MINING

The Short Course in Mining is especially designed for young men who have had a practical experience in mines, and wish to study Mine Surveying, Drafting, the problems of Ventilation, Drainage, Haulage, Mine Operating, etc., and also something of the sciences bearing upon their work, but have neither the time nor the preparation for a full college course. The first year is devoted to a thorough study of the elementary mathematics and sciences necessary to prepare the student for the practical work of the second year. The experience of the past eight years has shown beyond any doubt that any enterprising young miner can master the subject sufficiently well in the time assigned to materially increase his earning capacity and chances for promotion in his occupation.

Personal instruction is given, and it is made thoroughly practical and of such a character as to best adapt it to the needs of the individual student.

NOTE—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

## FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Mathematics (2)	5.	Mathematics (2)	5.	Mathematics (2)	5.
Algebra.		Algebra.		Algebra.	
Mathematics (3)	5.	Mathematics (13)	5.	Mathematics (14)	5.
Plane Geometry.		Space Geometry.		Trigonometry.	
Physics (1)	5.	Physics (1)	5.	Geology (1)	
Elementary.		Elementary.		Phys. Geography.	
Cadet Service.		Cadet Service.		Cadet Service.	

## SECOND YEAR

Drawing (1)	2.	Drawing (4)	3.	Drawing (2)	2.
Freehand.		Draughting.		Lettering.	
Drawing (3)	3.	Geology (4)	5.	Metallurgy (9)	5.
Projections.		Elementary.		Mineral Chemistry.	
Chemistry (7)	5.	Chemistry (13)	3.	Mine Engineering (8)	5.
Inorganic.		Laboratory.		Mine Operating.	
Mine Engineering (1)	5.	Mine Engineering (2)	5.	Shop Work (11)	3.
Mine Surveying.		Ventilation and Haulage.		Forging.	
Cadet Service.		Cadet Service.		Cadet Service.	

## SHORT COURSE IN CLAY-WORKING AND CERAMICS

The two-year or Industrial Course is designed to assist young men who have already been actively engaged in the Ceramic industries, and who, on account of mature years, or lack of means, or lack of previous educational advantages, are unable to avail themselves of the full and complete course, and yet who wish to increase their earning power or chances of promotion by fitting themselves for other than routine labor. The requirements for admission to this course are very low, and the work required throughout is much less severe than that of the four-year course; in fact, anyone who is willing to really apply himself, can retain his membership in this class, but there is no place for any but those who are thoroughly in earnest, and poor work will not be accepted from those who are able to do good work.

In short, in this Industrial Course, the department recognizes its closest medium of communication with the wants of the clay industries, and it is intended to so maintain this course as always to render the greatest good to the greatest number.

NOTE—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

## FIRST YEAR

Chemistry (7)	5.	Chemistry (7)	5.	Chemistry (12)	5.
Inorganic.		Inorganic.		Analytical.	
Physics (1)	5.	Physics (1)	5.	Geology (1)	5.
Elementary.		Elementary.		Phys. Geography.	
Mathematics (1)	5.	Mathematics (3a)	5.	Shop Work (11)	3.
Algebra.		Plane Geometry.		Forging.	
				Shop Work (4)	2.
				Chipping and Filing.	
Cadet Service.		Cadet Service.		Cadet Service.	

## SECOND YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Ceramics (1)	5.	Ceramics (2)	5.	Ceramics (3)	5.
Analysis of Limestones, etc.		Analysis of Clays.		Analysis of Glazes.	
Ceramics (4)	5.	Ceramics (5)	5.	Ceramics (6)	5.
Gen. Principles.		Bricks.		Pottery.	
Geology (2)	5.	Drawing (11)	5.	Geology (3)	5.
General.		Mechanical.		Economic.	
Cadet Service.		Cadet Service.		Cadet Service.	

## SHORT COURSE IN INDUSTRIAL ARTS

This Course is primarily designed to extend the benefits of the same kind of training as that given in the four-year course in this subject to that class of young men who may be unable for any reason to undertake a course of four years' duration, but who aspire to become actively engaged in factory work. It has been the aim to give, in as condensed a form as possible, those studies which will most rapidly and easily be turned to practical account in manufacturing operations; such as drawing, shop work, use of machine, tools, etc., together with a grounding in the physics and mathematics which underlie these operations.

The Course will be found most valuable to young men already engaged in factory work, who find themselves limited from rising in their work on account of lack of technical education.

NOTE—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

## FIRST YEAR

Drawing (1)	1.	Drawing (1)	1.	Drawing (1)	1.
Freehand.		Freehand.		Freehand.	
Drawing (8)	2.	Drawing (8)	2.	Drawing (2)	2.
Geometric.		Projections.		Lettering.	
Mathematics (2)	5.	Mathematics (2)	5.	Mathematics (2)	5.
Algebra.		Algebra.		Algebra.	
Mathematics (3)	5.	Mathematics (13)	5.	Mathematics (14)	5.
Plane Geometry.		Space Geometry.		Trigonometry.	
Shopwork (7)	3.	Shopwork (8)	3.	Shopwork (11)	3.
Carpentry and Pattern Making.		Carpentry Cabinet Work.		Forging.	
Cadet Service.		Cadet Service.		Cadet Service.	

## SECOND YEAR

Drawing (3)	3.	Drawing (3)	3.	Drawing (3)	3.
Projections.		Descriptive Geometry		Shades, Shadows & Per.	
Industrial Arts (1)	3.	Industrial Arts (1)	3.	Industrial Arts (1)	3.
Tools and Machines.		Tools and Machines.		Tools and Machines.	
Physics (1)	5.	Physics (1)	5.	Geology (1)	5.
Elementary.		Elementary.		Phys. Geography.	
Shopwork (13)	5.	Shopwork (13)	5.	Shopwork (15)	5.
Foundry and Chipping and Filing.		Machine Work.		Advanced Machine Work.	
Cadet Service.		Cadet Service.		Cadet Service.	

## THE COLLEGE OF LAW

## FOR ADMISSION

(Until September, 1901)

The following are the requirements:

1. *To the First Year*—Applicants for admission to the First Year must present satisfactory evidence (by teacher's certificate—High School, Academy or College diploma—or by examination) of having a good common school education, including *United States History*, *Civil Government* and a thorough training in *English Composition*.

2. *The Second Year*—In addition to the requirements for admission to the First Year, applicants for admission to the Second Year must present satisfactory evidence of having completed the work of the First Year or its equivalent.

3. *To the Third Year*—In addition to the requirements for admission to the Second Year, applicants for admission to the Third Year must present satisfactory evidence of having completed the work of First and Second Years, or its equivalent.

Students seeking a degree must, at the time of registration, present in addition to the requirements above mentioned satisfactory evidence of having completed a course of study, the minimum requirement of which is as follows:

*Arithmetic, Civil Government, Geography, Grammar, History of the United States, Physical Geography, Physiology, Rhetoric, Physics*, (Gage or an equivalent) *Geometry, Algebra*, (Wentworth's elements or an equivalent); and, in addition, the equivalent of 75 hours per week for one term of 12 weeks (a total of 900 hours) chosen from any five or more of the following subjects, one at least being a Science and two at least being in History or Political Science (unless the applicant is especially permitted to offer approved substitutes): *Botany, Chemistry, English Constitutional History, English History, English Literature, French, Geology, General History, German, Greek, Latin, Logic, Physics, Political Economy, Psychology, Surveying, Trigonometry, United States Constitutional History*; provided, that not less than 65 hours for twelve weeks (a total of 780 hours) of this work shall be of collegiate or university grade. If this last mentioned work has been done by the candidate in a College or University of good standing, certificates of such institution will be accepted. In all other cases the candidate is subject to examination on the work required from this last group. In general, in the absence of satisfactory certificates, opportunity will be given for examination in any subject required for admission as above indicated. Blanks for applications for degrees will be furnished on request.

FOR ADMISSION<sup>1</sup>

(On and after September, 1901)

The following are the requirements:

1. *Arithmetic, Descriptive and Physical Geography, English Grammar, and United States History*.

2. *English (a)*—Composition and Rhetoric. Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of two essays of about two hundred words each. The first essay will be upon a subject drawn from the candidate's observation or experience. The second essay will be upon a subject drawn from the list of classics printed below.

<sup>1</sup> An applicant for admission who may be somewhat in arrears in any given subject, will find opportunity to make up his work in the Columbus High Schools, which are fully accredited by the University.



The proper preparation for this requirement is sustained and regular practice in writing. The pupil should be afforded weekly practice in preparing written exercises — paragraphs, outlines, themes, reproductions and abstracts; and his written work should be corrected by the teacher and revised and rewritten by himself. Scott and Denney's Composition — Rhetoric is recommended as a guide for this work.

The pupil should be familiarized with those principles of Rhetoric which are most likely to help him in his composition work; such as the principles of sentential structure, outlining, paragraphing, and choice of words. The study of specimens of bad English is not recommended; the time usually devoted to this may be better spent in memorizing and reciting notable passages of prose and poetry selected from works read entire by the class. Exercises in speaking from a topical outline previously prepared by the class are recommended for drill in expression and choice of words.

The subjects for the weekly written exercises should be so distributed that the pupil will have practice in four types — description, narration, exposition and argumentation. Some of these subjects should be taken from the classics prescribed below, and other classics, preferably by the same authors, prescribed for parallel or subsidiary outside reading by the class; but fully one-half of the subjects upon which the pupil writes during the preparatory course should be drawn from his own observation and experience, especially subjects in description and narration.

(b) English Classics — Questions will be set for the purpose of testing the applicant's knowledge of the subject-matter, form and substance, of the following books; with the plot, purpose, literary style and peculiarities, incidents, and characters of which the applicant should make himself thoroughly familiar.

1899. Chaucer's *The Knight's Tale*, or Dryden's *Palamon and Arcite*; Milton's *Paradise Lost*, Books I and II; Pope's *Iliad*, Books I, VI, XXII and XXIV; The Sir Roger de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Cooper's *The Last of the Mohicans*; Lowell's *The Vision of Sir Launfal*; Hawthorne's *The House of Seven Gables*.

1900. Chaucer's *The Knight's Tale*, or Dryden's *Palamon and Arcite*; Milton's *Paradise Lost*, Books I and II; Pope's *Iliad*, Books I, VI, XXII and XXIV; The Sir Roger de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Cooper's *The Last of the Mohicans*; Macaulay's *Essay on Milton*; Burke's *Conciliation with the Colonies*.

1901. *Macbeth*; Burke's *Conciliation with the Colonies*; Macaulay's *Essays on Milton and Addison*; Milton's *Comus*, *Lycidas*, *L'Allegro* and *Il Penseroso*; Scott's *Ivanhoe*; Goldsmith's *The Vicar of Wakefield*; Tennyson's *Princess*; Coleridge's *The Ancient Mariner*; Lowell's *The Vision of Sir Launfal*.

These or equivalent texts will require minute and critical study in class during at least one school year. The test here is the pupil's ability to analyze plot and character; to explain words, phrases and figures; to reproduce thought, to point out characteristics of style. Systematic class-room study of the texts themselves is the only adequate preparation. Literary history, literary biography and the comments of professional critics will not serve the purpose. The work in class should be intensive and disciplinary; there the distinction between the reading of literature and the study of classics should be sharply defined. Outside reading of other works preferably by the same authors, is recommended, and should be prescribed as the basis of part of the composition work; but this general reading and composition work should not be regarded as an adequate substitute for the minute study of the few classics prescribed above, and will not be accepted as preparation for this part of the English requirement.

3. *Algebra* — Taylor's Academic or equivalent.

4. *Botany* — Kellerman's Elementary Botany and Spring Flora.

5. *Civil Government* — Fiske or Thorpe preferred.

6. *Geometry, Plane and Solid* — Venable, Wentworth or Wells.

7. *History* — Either Myers's General History (or equivalent); or, if the teacher's training and the school library will warrant, Greek and Roman History on the topical method. A circular concerning the topical method will be sent on application.

8. *Physics* — Carhart and Chute, Gage, Avery, or Appleton.

9. Any two of the following languages, in the quantity indicated below. Latin, Greek, French or German, or any one of them and the group of subjects named under (e) below.

(a) *Latin* — Pronunciation (the Roman method); Grammar (an exact knowledge of the inflections is essential); Cæsar, the first four books of the *De Bello Gallico*; Cicero, six orations, including *Pro Lege Manilia*; Vergil, the first six books of the *Aeneid*, with Prosody; Prose Composition, Daniell or Collar or Jones, entire.

(b) *Greek* — Grammar (Goodwin's preferred) and Prose Composition; or the first 100 lessons of White's Beginner's Greek Book. Reading: The first four books of Xenophon's *Anabasis*. At least two years should be devoted to this work.

(c) *French* — The whole subject of French Grammar. Applicants will be expected to read at sight easy French and to translate correctly into French simple English sentences. Two years ought to be given to this study, the first year being spent mainly on the Grammar with easy reading; the second devoted to reading good modern French, with grammatical analysis and exercises in writing. The text read should be chiefly narrative and conversational prose; one or more prose comedies of the nineteenth (not the seventeenth) century should be included.

(d) *German* — Joynes-Meissner's or Thomas' Grammar is recommended. The essentials in these grammars should have been mastered thoroughly, *i. e.*, declensions of nouns and adjectives, pronouns, comparison of adjectives, prepositions, regular and irregular verbs and essentials of syntax.

The following books or their equivalents must have been read (not less than 600 pages): Joynes's or Whitney's Reader, Hillern's *Höher als die Kirche*, Riehl's *Der Fluch der Schönheit*, Freytag's *Die Verlorne Handschrift*, Gerstäcker *Irrfahrten*.

(e) While the preferred requirement is that each candidate shall offer any two of the foregoing languages, he will be permitted to offer in place of one of the two the following group:

1. *Chemistry* — Williams' or Remsen's.
2. *Physiology* — Martin's (briefer course).

3. *English Literature* — Pancoast's Introduction to English Literature and an acquaintance with representative works in each period; or, *English History* — Montgomery.

In addition to the foregoing requirements for admission to the work of the College, each candidate for a degree must submit satisfactory evidence that he has successfully pursued a course of study equivalent to the first two years of any course leading to a degree in the College of Arts, Philosophy and Science, of this University. Where this work has been done in a college or university of approved standing, the certificate of said college or university will be accepted. In all other cases the candidate will be subject to examination in such work.

## COURSE IN LAW

### FIRST YEAR

	FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
Elementary Law (including Domestic Relations) .....	15		Agency .....	2
			Contracts .....	4
			Criminal Law .....	3
			Sales .....	2
			Torts .....	4
		15		15

### TEXT BOOKS

*First Semester* — Elementary Law (Robinson, Walker and Blackstone).

*Second Semester* — Agency (Mechem); Contracts (Bishop); Criminal Law (Hawley); Sales (Tiedeman); Torts (Cooley).

SECOND YEAR.

FIRST SEMESTER		Credit hours	SECOND SEMESTER		Credit hours
Bailments .....	4		Construction of Contracts.....	2	
Commercial Law .....	4		Evidence .....	2	
Evidence .....	2		Partnership .....	2	
Pleading .....	4		Pleading .....	2	
Moot Court .....	1		Real Property .....	4	
			Wills .....	2	
			Moot Court .....	1	
		15			15

TEXT BOOKS

*First Semester* — Bailments (Hale); Commercial Law (Tiedeman); Evidence (Underhill or Greenleaf); Pleading (Phillips).

*Second Semester* — Construction of Contracts (Jones); Partnership (Parsons); Real Property (Tiedeman); Wills (Schouler).

THIRD YEAR

Circuit and Supreme Court Practice.....	1	Corporations (Private).....	2
Constitutional Law }		Corporations (Municipal), Negligence of	2
International Law }	4	Ethics .....	1
Corporations (Private).....	2	Federal Practice.....	2
Corporations (Municipal).....	2	Insurance .....	2
Equity Jurisprudence.....	4	Mortgages }	
Probate Law.....	2	Suretyship }	2
Moot Court.....	1	Trial Practice.....	2
		Moot Court.....	1
	16		14

Thesis for graduation to count for two hours through second semester.

TEXT BOOKS

*First Semester* — Constitutional Law (Black); Private Corporations (Taylor); Municipal Corporations (Tiedeman); Equity Jurisprudence (Fetter).

*Second Semester* — Ethics (Sharswood); Insurance (Richards); Negligence of Municipal Corporations (Jones); Suretyship (Baylies).

PURPOSE AND METHODS

It is the purpose of this College to furnish such legal training as will secure the most favorable judgment of the profession, and such as will fit students for practice in any part of the country.

The aim is to teach an accurate knowledge of the principles of the law, and to illustrate the application of these principles to the practical affairs of life — to teach students both to know and to apply the law. The instruction offered includes a Course containing three years of nine months each. It requires about fifteen hours of lecture and recitation work per week each year, and embraces all the elementary and practical studies necessary for admission to the Bar of any State administering the Common Law.

The methods of instruction combine the advantages of all approved systems and appliances — the text-book and recitation system, the lecture system, and the case system. Charts, outlines, analyses, essays, note-taking, oral and written lectures, reviews and examinations are used; and exercises are given in drafting contracts, abstracts, conveyances, wills, protests, mercantile contracts, pleadings, indictments, and other legal papers. Briefs, arguments in moot courts, etc., are required. Attention is given to the study and accurate analysis of leading cases.



## GENERAL REGULATIONS

## IRREGULAR STUDENTS

In special cases, students who have had part of the studies of the First Year and part of those of the Second Year, or part of those of the Second Year and part of those of the Third Year, may be examined on whatever subjects they may select and may take part of the studies of both years, if the Faculty is satisfied that the applicants can do so to advantage. If candidates for a degree, such applicants must meet all the other requirements and have all the other qualifications of those seeking a degree.

## SPECIAL STUDENTS

Persons wishing a knowledge of legal principles *for business purposes only*, but not intending to apply for a degree or to take a full course, may be admitted at any time as special students, and may avail themselves of such advantages of the College as they may deem expedient. Their convenience will not be taken into consideration in arranging classes, and they must make satisfactory arrangements as to fees, hours of recitation, etc., with the Dean.

## ENTRANCE EXAMINATIONS

Entrance examinations, except for those seeking a degree, will not be technical; the object being to ascertain the results of previous training and practical capacity to appreciate the technical study of the law. All entrance examinations will be conducted in writing.

## APPLICATIONS FOR DEGREES

*At the time of registration* all applicants who seek degrees should present their diplomas and certificates of work done. These certificates should state in detail the studies pursued, the text-books used, the amount of work done in each study, the amount of time devoted to it, the date of the examination, and the rank or standing of the candidate in it. A copy of the course of study should accompany the certificate in all cases, and must accompany it where equivalents are offered. These statements should also be accompanied by information as to age, occupation, experience, and work done since leaving school. Blanks for application will be furnished on request.

## EXAMINATIONS

Examinations are held from time to time to test the student's knowledge of the work he has gone over. They are usually written, but sometimes oral.

## THESIS

Each candidate for a degree is required to prepare and deposit with the Faculty, at least six weeks before the end of the year of graduation, a thesis of not less than fifteen hundred nor more than five thousand words, exclusive of citations of authorities, upon some subject selected by himself with the approval of the professor giving instruction in that division of law from which the subject is chosen.



## DEGREES

The degree of Bachelor of Laws (LL. B.) will be conferred on all who, being at least twenty-one years of age and having met the requirements necessary for entrance for a degree, pass satisfactorily the examinations at the close of the Senior year, after having done at least one year's work in the College of Law at the University, and having presented a thesis acceptable to the Faculty.

The degree of Master of Laws will be conferred upon any one who has received the degree of Bachelor of Laws at this University, or other approved University or College, upon completing the studies of the Graduate year, and satisfactorily passing an examination therein, and presenting a satisfactory thesis; the subject of which has been chosen from the field included in the Graduate year.

## CERTIFICATES OF WORK DONE

Those who have completed the studies of the College, but have not complied with the requirements for a degree, will be given an official certificate, showing the work done, and signed by the President of the Board of Trustees, the President of the University, and the Dean of the College of Law.

## ADMISSION TO THE BAR

The regular Supreme Court examination for the admission to the bar is held on the first Tuesday in June of each year. Seniors, if eligible, are recommended to take this examination.

## COURSE OF INSTRUCTION

The Course of Study is three years of nine months, or thirty-six weeks, each; covering about fifteen hundred hours of work. It is so arranged that each class will have an average of three recitations a day, each one hour in length, thereby doing the same amount of work that is done in a regular University course.

## MOOT COURT

Second Year and Third Year students will have Moot Court, under the supervision of the Dean, throughout the year, not less than one hour each week. The object of Moot Court is to give practical insight into the conduct of trials, examination of witnesses, production of evidence, etc.

## ADVANTAGES

## LOCATION

Attention is called to Columbus as a place in which to study law. Here the Legislature meets. Here are the Supreme Court and Circuit Court; four branches of the Common Pleas Court, in almost daily session throughout the college year; the Probate Court, the County Commissioners, the City Court, the several Magistrates' Courts; also the U. S. Circuit and District Courts. All are easy of access from the College. "There is no place where law is learned so quickly and thoroughly as among the lawyers. No teaching is so effective as the object lessons of the trial of cases in court."

## LIBRARIES

The following libraries are accessible to the student:

The Law Library of the College contains the Noble Law Library, the Emerson McMillin Law Library, the Critchfield Law Library, and three sets of the Ohio and the Ohio State Reports; about 2,500 well selected volumes. It is shelved with the other Libraries of the University, in Orton Hall.

The University Library contains 25,000 volumes of very carefully selected books upon all subjects. This is quite complete in the more recent standard works upon history and political science, philosophy, etc. A good collection of the leading scientific, technical and literary magazines and journals is to be found here.

The State Law Library, of about 15,000 volumes — the largest and most complete Law Library in the State. It contains complete sets of the English, Scotch, Irish, Canadian, United States, and State Reports, Statutes and Digests, as well as all the important text books and leading periodicals published. This library is located in the State House, and because of the small space available must be used with great care and discretion in order that all may be served. It is designed wholly for reference, and students are warned that they must not use the library rooms as a study room, and that the text books found here are to be used for reference only. No student is expected, nor will he be permitted, to use these books instead of providing himself with those required in the course.

The State Library, in the State House — a library of general literature, history, science, biography, political and social science, philosophy, etc., comprising some 65,000 volumes. The leading magazines, journals, etc., are also to be found here.

The University Libraries are open from 7:30 A. M. to 9:30 P. M. during the five days in which the University is in session, and on Saturdays from 8 A. M. to 4 P. M. The State Law Library is open six days in the week, from about 8:30 A. M. to 5:30 P. M., with the exception of about an hour or an hour and a half at noon. The State Library is open six days in the week from 9 A. M. to 12 M., and from 2 P. M. to 5 P. M.; and when the Legislature is in session, from 7 P. M. to 9 P. M.

The City Library may also be used by students, under reasonable restrictions.

## THE UNIVERSITY COURSES

Attention is called to the great advantage of attending a law school in close and vital connection with the University affording the means of a liberal, practical and technical education. Students who are disposed to work faithfully may, at the same time that they are acquiring a technical knowledge of the law, supplement their general education by joining University classes, in departments which they may elect, subject to the requirements for admission to such departments, without extra charge except for laboratory work. Not alone from the courses in History and Political Science, or from those in Mental and Moral Philosophy, should this work be selected, but also from the courses in Civil, Mine, Mechanical, and Electrical Engineering, from the courses in Anatomy and Physiology, Economic Geology, etc. To the average practitioner, there will come ten questions involving the principles of surveying or engineering to one of the constitutional law or English history. Not a day passes in the litigation of the courts but that numerous questions of anatomy, physiology, surveying or engineering arise and are to be decided. Particular attention, therefore, is called to the technical courses offered by the University, which will be open to those in the College of Law who are able to take them without interfering with the required law work. The following departments offer courses which will prove beneficial to those who have not had

such training as would enable them to take more technical work: Botany, Physiology, Physics, Civil Engineering, Mine Engineering, Chemistry (Toxicology), Geology, Philosophy, History, English.

### EXPENSES

Each student of the University is required to pay an incidental fee of fifteen dollars a year, and in this College a tuition fee of forty-five dollars; a total of thirty dollars for each semester, which is payable at the beginning of each semester.

A fee of five dollars (to cover the expenses of graduation, diplomas, etc.,) is charged to all who take the degree of Bachelor of Laws, and a fee of ten dollars is charged to those taking the degree of Master of Laws. These fees must be paid before the degrees are conferred.

Good boarding and lodging, convenient to the University, can be obtained at from \$3.50 to \$5.00 per week.

For information as to the cost of text-books used, address L. T. Williams, Ohio State University, Columbus.

Please send names and addresses of law students, and requests for printed matter, to W. F. Hunter, Dean, 18 Board of Trade, Columbus, Ohio; or to the Executive office, Ohio State University, Columbus.

## THE COLLEGE OF PHARMACY

FOR ADMISSION TO THE FOUR-YEAR COURSE<sup>1</sup>

The following are the requirements:

1. *Arithmetic, Descriptive and Physical Geography, English Grammar, and United States History.*

2. *English (a)*—Composition and Rhetoric. Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of two essays of about two hundred words each. The first essay will be upon a subject drawn from the candidate's observation or experience. The second essay will be upon a subject drawn from the list of classics which will be furnished on application.

The proper preparation for this requirement is sustained and regular practice in writing. The pupil should be afforded weekly practice in preparing written exercises—paragraphs, outlines, themes, reproductions and abstracts; and his written work should be corrected by the teacher and revised and rewritten by himself. Scott and Denney's *Composition—Rhetoric* is recommended as a guide for this work.

The pupil should be familiarized with those principles of Rhetoric which are most likely to help him in his composition work; such as the principles of sentential structure, outlining, paragraphing, and choice of words. The study of specimens of bad English is not recommended; the time usually devoted to this may be better spent in memorizing and reciting notable passages of prose and poetry selected from works read entire by the class. Exercises in speaking from a topical outline previously prepared by the class are recommended for drill in expression and choice of words.

The subjects for the weekly written exercises should be so distributed that the pupil will have practice in four types—description, narration, exposition and argumentation. Some of these subjects should be taken from the classics prescribed below, and other classics, preferably by the same authors, prescribed for parallel or subsidiary outside reading by the class; but fully one-half of the subjects upon which the pupil writes during the preparatory course should be drawn from his own observation and experience, especially subjects in description and narration.

(b) *English Classics*—Questions will be set for the purpose of testing the applicant's knowledge of the subject-matter, form and substance, of the following books; with the plot, purpose, literary style and peculiarities, incidents, and characters of which the applicant should make himself thoroughly familiar.

1899. Chaucer's *The Knight's Tale*, or Dryden's *Palamon and Arcite*; Milton's *Paradise Lost*, Books I and II; Pope's *Iliad*, Books I, VI, XXII and XXIV; The Sir Roger de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Cooper's *The Last of the Mohicans*; Lowell's *The Vision of Sir Launfal*; Hawthorne's *The House of Seven Gables*.

1900. Chaucer's *The Knight's Tale*, or Dryden's *Palamon and Arcite*; Milton's *Paradise Lost*, Books I and II; Pope's *Iliad*, Books I, VI, XXII and XXIV; The Sir Roger de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Cooper's *The Last of the Mohicans*; Macaulay's *Essay on Milton*; Burke's *Conciliation with the Colonies*.

1901. *Macbeth*; Burke's *Conciliation with the Colonies*; Macaulay's *Essays on Milton and Addison*; Milton's *Comus, Lycidas, L'Allegro and Il Penseroso*; Scott's *Ivanhoe*; Goldsmith's *The Vicar of Wakefield*; Tennyson's *Princess*; Coleridge's *The Ancient Mariner*; Lowell's *The Vision of Sir Launfal*.

These or equivalent texts will require minute and critical study in class during at least one school year. The test here is the pupil's ability to analyze plot and character; to explain words,

<sup>1</sup> An applicant for admission who may be somewhat in arrears in any given subject, will find opportunity to make up his work in the Columbus High Schools, which are fully accredited by the University.



phrases and figures, to reproduce thought, to point out characteristics of style. Systematic class-room study of the texts themselves is the only adequate preparation. Literary history, literary biography and the comments of professional critics will not serve the purpose. The work in class should be intensive and disciplinary; there the distinction between the reading of literature and the study of classics should be sharply defined. Outside reading of other works preferably by the same authors, is recommended, and should be prescribed as the basis of part of the composition work; but this general reading and composition work should not be regarded as an adequate substitute for the minute study of the few classics prescribed above, and will not be accepted as preparation for this part of the English requirement.

3. *Algebra* — Taylor's Academic or equivalent.
4. *Botany* — Kellerman's Elementary Botany and Spring Flora or equivalent.
5. *Civil Government* — Fiske or Thorpe preferred.  
Or *History* — Myers's *General History*.
6. *Geometry, Plane and Solid* — Venable, White, Wentworth or Wells.
7. *Latin* — Pronunciation (the Roman method); Grammar (an exact knowledge of the inflections is essential), Cæsar, the first three books of the *De Bello Gallico*.

Or *German* — Joynes-Meissner's or Thomas' Grammar is recommended. The essentials in these grammars should have been mastered thoroughly, *i. e.*, declensions of nouns and adjectives, pronouns, comparison of adjectives, prepositions, regular and irregular verbs, and essentials of syntax.

The following books or their equivalents must have been read (not less than 600 pages): Joynes's or Whitney's Reader, Hillern's *Höher als die Kirche*, Riehl's *Der Fluch der Schönheit*, Freytag's *Die Verlorne Handschrift*, Gerstäcker *Irrfahrten*.

For the present, the *German* required for admission may be begun at the University, but without University credits.

8. *Physics* — Carhart and Chute, Gage, Avery, or Appleton.

## COURSE IN PHARMACY

NOTE — The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

*Degree: Bachelor of Science in Pharmacy*

### FIRST YEAR

FIRST TERM		SECOND TERM		THIRD TERM	
	Credit hours		Credit hours		Credit hours
Chemistry (7)	5.	Chemistry (7)	5.	Chemistry (12)	5.
Inorganic.		Inorganic.		Qualitative Analysis.	
Latin (1)	5.	Latin (1)	5.	Latin (1)	5.
Pharmaceutical		Pharmaceutical		Pharmaceutical	
or		or		or	
German (1)	4.	German (1)	4.	German (1)	4.
Elementary.		Elementary.		Elementary.	
Mathematics (14)	5.	Mathematics (15), (16)	5.	Mathematics (17)	5.
Plane Trigonometry.		Spherical Trigonometry,		Plane Analytics.	
		Algebra.			
Rhetoric (5)	2½.	Rhetoric (5)	2½.	Rhetoric (5)	2½.
English Composition.		English Composition.		English Composition.	
Cadet Service (men).		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical		Hygiene and Physical		Hygiene and Physical	
Training (women).		Training (women).		Training (women).	

## SECOND YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Botany (6a)	5.	Botany (4)	2.		
Systematic, Physiological.		Medical.			
Chemistry (4)	5.	Chemistry (4)	5.	Chemistry (4)	5.
Laboratory.		Laboratory.		Laboratory.	
German (2)	2.	German (2)	2.	German (2)	2.
Science Reading.		Science Reading.		Science Reading.	
Pharmacy (6)	3.	Pharmacy (7)	5.	Pharmacy (8)	5.
General Processes.		U. S. Pharmacopeia.		Dispensaries, etc.	
Physics (11)	3.	Physics (11)	3.	Physics (11)	3.
Mechanics and Heat.		Electricity & Magnetism.		Sound and Light.	
				Metallurgy (2)	3.
				Mineralogy.	
Cadet Service (men).		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical		Hygiene and Physical		Hygiene and Physical	
Training (women).		Training (women).		Training (women).	

## THIRD YEAR

Pharmacy (9)	5.	Pharmacy (10)	5.	Pharmacy (11)	5.
General Processes.		Prescriptions.		Dispensaries, etc.	
Pharmacy (12)	3.	Pharmacy (13)	2.	Pharmacy (14)	3.
Materia Medica.		Materia Medica.		Mat. Medica and Thera.	
Physiology (1)	3.	Physiology (1)	3.	Physiology (1)	3.
Human Anatomy.		Physiology.		Physiology.	
General Chemistry (8)	5.	Physiology (8)	2.	Physiology (5)	2.
Organic.		Bacteriology.		Microscopy.	
		General Chemistry (9)	5.	General Chemistry (9)	5.
		Organic.		Organic.	

## FOURTH YEAR

Geology (2)	5.	Geology (2)	5.	General Chemistry (11)	4.
General.		General.		Toxicology.	
Pharmacy (15)	5.	Pharmacy (17)	5.	Pharmacy (17)	5.
Assaying.		General.		General.	
Thesis.		Thesis.		Thesis.	

Chemistry elective for the year—five hours.  
Elective, three hours through the year.

## THESIS

As a requisite for graduation each candidate must present an acceptable thesis, embodying the results of special study and research. The subject must be within the field of Pharmacy, and must be announced to the President of the University (dependent upon the written approval of the proper authorities) not later than the beginning of the second term of the fourth year of the Course. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

## SHORT COURSE IN PHARMACY

## FOR ADMISSION

Candidates for admission who are less than twenty-one years of age must be prepared in the common English branches. Teachers' certificates (in force), or credentials from approved schools, will be accepted in lieu of an examination.

## FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Chemistry (7)	5.	Chemistry (7)	5.	Botany (1)	5.
Inorganic.		Inorganic.		Elementary.	
Latin (1)	5.	Latin (1)	5.	Chemistry (12)	5.
Pharmaceutical.		Pharmaceutical.		Qualitative Analysis.	
Physics (1)	5.	Physics (1)	5.	Latin (1)	5.
Elementary.		Elementary.		Pharmaceutical.	
Pharmacy (6)	3.	Pharmacy (7)	5.	Pharmacy (8)	5.
General Processes.		U. S. Pharmacopeia.		Dispensaries, etc.	
Cadet Service (men).		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical		Hygiene and Physical		Hygiene and Physical	
Training (women).		Training (women).		Training (women).	

## SECOND YEAR

Botany (6a)	5.	Botany (4)	2.	Chemistry (11)	4.
Systematic, Phys.		Medical.		Toxicology.	
Chemistry (18)	5.	Chemistry (18), (19)	5.	Chemistry (19)	5.
Laboratory.		Laboratory.		Laboratory.	
Pharmacy (9)	5.	Pharmacy (10)	5.	Pharmacy (11)	5.
Phar. Chemistry.		Prescription Practice.		Dispensing Practice.	
				Physiology (1)	3.
				Physiology.	
Physiology (1)	3.	Physiology (1)	3.	Physiology (5)	2.
Human Anatomy.		Physiology.		Microscopy.	
		Physiology (8)	2.		
		Bacteriology.			
Cadet Service (men).		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical		Hygiene and Physical		Hygiene and Physical	
Training (women).		Training (women).		Training (women).	

## COLLEGE OF VETERINARY MEDICINE

FOR ADMISSION<sup>1</sup>

The following are the requirements:

I. For applicants for certificates of Veterinary Surgeon: *Arithmetic, Geography and Grammar.*

II. For applicants who intend to become candidates for the degree of Doctor of Veterinary Medicine:

1. *Arithmetic, Grammar, and Descriptive and Physical Geography.*

2. *English Composition and Rhetoric*—Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of two essays of about two hundred words each. The first essay will be upon a subject drawn from the candidate's observation or experience; as "A description of my native town," "The most remarkable person I ever met," "My reasons for seeking a University education." The second essay will be upon a subject drawn from a list of classics which will be furnished on application.

3. *History*—History of the United States, Johnson preferred.

4. *Latin or German*—One year.

5. *Physics*—Gage, Carhart and Chute, Avery, or Appleton.

6. *Botany*—Kellerman's Elementary Botany and Spring Flora or equivalent.

## COURSE IN VETERINARY MEDICINE

NOTE—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

*Degree: Doctor of Veterinary Medicine*

## FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Ag. Chemistry (1)	5.	Ag. Chemistry (8)	5.	Ag. Chemistry (9)	5.
Principles.		Organic.		Applications.	
Physiology (1)	3.	Physiology (1)	3.	Physiology (1)	3.
Human Anatomy.		Physiology.		Physiology.	
Physiology (4)	5.	Physiology (4)	5.	Physiology (4)	5.
Histology.		Histology.		Phys. Chemistry.	
Veterinary Medicine (11)	5.	Vet. Medicine (12)	5.	Vet. Medicine (13)	5.
Osteology.		Myology, etc.		Dissections, etc.	
Cadet Service.		Cadet Service.		Cadet Service.	

## SECOND YEAR

Agriculture (8)	4.	Agriculture (9)	4.	Agriculture (10)	4.
Breeds of Live Stock.		Stock Breeding.		Stock Feed'g & Hygiene.	
Pharmacy (12)	5.	Pharmacy (13)	5.	Pharmacy (18)	5.
Materia Medica.		Materia Medica.		Laboratory.	
Vet. Medicine (14)	5.	Vet. Medicine (15)	5.	Vet. Medicine (16)	5.
Gen. Pathology.		Gen. Pathology.		Special Pathology.	
Vet. Medicine (19)	3.	Vet. Medicine (18)	5.	Vet. Medicine (18)	5.
Clinic.		Surgical Diseases.		Surgical Diseases.	
Vet. Medicine (24)	5.	Vet. Medicine (19)	3.	Vet. Medicine (19)	3.
Gen. Surgery.		Clinic.		Clinic.	
Cadet Service.		Cadet Service.		Cadet Service.	

<sup>1</sup> An applicant for admission who may be somewhat in arrears in any given subject, will find opportunity to make up his work in the Columbus High Schools, which are fully accredited by the University.



## THIRD YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Vet. Medicine (20)	3.	Vet. Medicine (21)	3.	Vet. Medicine (22)	5.
Special Pathology.		Special Pathology.		Therapeutics.	
Vet. Medicine (19)	3.	Vet. Medicine (25)	3.	Vet. Medicine (19)	3.
Clinic.		Practice in Operating.		Clinic.	
Vet. Medicine (27)	5.	Vet. Medicine (19)	3.	Vet. Medicine (26)	5.
Meat Inspection.		Clinic.		Horse Shoeing.	
Vet. Medicine (18)	5.	Physiology (6)	3.	Vet. Medicine (33)	2.
Surgical Diseases.		Bacteriology.			
Vet. Medicine (31)	3.	Vet. Medicine (23)	3.	Thesis.	
		Obstetrics.			
		Vet. Medicine (32)	3.		
		Thesis.			

## THE SUMMER SCHOOL

By action of the Board of Trustees and of the Faculty, a Summer School has been established in the University and placed under the general supervision of the President and Faculty. The immediate supervision of the work of the school is vested in a committee of the Faculty, consisting of the President of the University, a Dean of the Summer School, and the heads of departments which offer courses in the Summer School. The session of the Summer School of 1898 began June 20 and closed July 30, covering a period of six weeks.

COURSES OF INSTRUCTION<sup>1</sup>

In the following list of courses the number of "hours" indicate the number of class exercises each week, whether lectures, recitations or laboratory work.

## BOTANY

- A. **ELEMENTARY BOTANY**—Single or double Course. Recitations, lectures, and laboratory work. Kellerman's Elementary Botany will be used as a text, and any one of the Manuals. Herbarium of fifty plants required. Those taking the double course will be required to make an additional herbarium illustrating the various classes of plants ..... 5 or 10 hours
- B. **ADVANCED BOTANY**—Special work in Systematic Botany, Experimental Physiology, or the Evolution of plants. Lectures and laboratory work. No text-book required. Laboratory fee \$1.00 for single, \$2.00 for double course..... 5 or 10 hours

<sup>1</sup> The courses for 1899 have not yet been determined. The courses printed herein are given to illustrate the general scope of the school. They cover the work done in 1898.

- C. **CYTOLOGY AND SPECIAL METHODS** — Lectures and laboratory work. Karyolimesis and embryology, with special method of imbedding and staining material for original investigation. No text book required. Laboratory fee \$1.00 for single, \$2.00 for double course  
..... 5 or 10 hours

## CHEMISTRY

- A. **PRINCIPLES OF CHEMISTRY**— Lectures..... 5 hours  
B. **QUALITATIVE ANALYSIS**—Laboratory fee \$4.00..... 10 hours  
C. **QUANTITATIVE ANALYSIS**—Laboratory fee \$4.00..... 10 hours

## ENGLISH COMPOSITION, LANGUAGE, RHETORIC

- A. **TEACHERS' COURSE** — Lectures, conferences, prescribed readings, and reports on the teaching of composition, grammar and rhetoric in the secondary schools. Some of the subjects discussed will be as follows: Class-room method and procedure; the place of the text-book; plans for courses in the secondary schools; plans for lessons; the essay problem; the teacher's necessary equipment; how much grammar; school grammar against historical grammar; the relations between composition and the study of English Classics; the order of topics; the function of criticism; a review of the work of the Committee of Ten and of the English Conferences; a review of recent text-books. "Hinsdale's Teaching the Language Arts" will be used as a starting point for some of the discussions..... 5 hours
- B. **PRACTICE COURSE** — Daily compositions, written for the most part in class, to be criticised closely by the instructor, and including the sketch, the criticism, the book review, the short story, the news article, and the brief and argument, with preliminary lecture on each of these types of composition. Text-book. Scott & Denney's Composition-Rhetoric. This course is equivalent to University course No. 51..... 5 hours
- C. **ANALYSIS OF PROSE** — A study of specimens of English prose with reference to the principles of Rhetoric which they illustrate. Text-book: Genung's Rhetorical Analysis.

## ENGLISH LITERATURE

- A. **FOUNDATION STUDIES IN ENGLISH LITERATURE**—A course for teachers consisting of lectures, with illustrative readings. Most of the lectures will deal with the books read and the way in which they should be studied with classes in the secondary schools. A few lectures will be given on the following subjects: The chief aim of the teacher of English Literature; class-room method and procedure; the order in which the prescribed English Classics should be studied; the functions of histories of English Literature and of the English and German critics; plans for courses and lessons; a fair division of the time allotted to English..... 5 hours
- B. **TEACHERS' COURSE IN PREPARATORY CLASSICS** — In this course the classics appointed for the examination of 1899 will be studied, beginning with Scott's *Ivanhoe*. This Course is an enlargement of Course A, and is open only to those who take that course..... 5 hours

- C. **TEACHERS' COURSE IN SHAKESPERE** — Beginning with the Merchant of Venice ..... 5 hours

## FRENCH

- A. **ELEMENTARY COURSE** — Survey of Grammar; rapid reading; drill in pronunciation. The object of this course is to furnish the beginner with the essentials of the language. Text-book: Joyne's Minimum French Grammar and Reader..... 5 hours
- B. **TEACHERS' COURSE** — An advanced course for teachers and others possessing a reading knowledge of French. The work will include: (1) special training in pronunciation, conversation, dictation and translation from English into French to secure a practical command of the language; (2) lectures on methods of teaching French, and the teacher's equipment..... 5 hours

## GEOLOGY

- A. **GENERAL INORGANIC GEOLOGY** — Emphasizing especially Geographical and Lithographical Geology. Students will be encouraged to make and label rock collections. Excursions will be made to surrounding points for study of water action and ice action..... 5 hours
- B. **HISTORICAL GEOLOGY** — This course, which is supplementary to Course A, will include lectures and laboratory work, the latter predominating. The lectures will treat of the growth of the North American continent and the development of plant and animal life. The laboratory course will consist of study of typical groups of Ohio fossils... 5 hours
- If desired, a short field excursion of two or three days will be made after the close of regular term.

## GERMAN

- A. **OUTLINE OF GERMAN GRAMMAR** — A comparative study of German and English Grammar, designed especially for teachers, and for more mature beginners who are at home in English Grammar. Reading of Gueber's "Märchen und Erzählungen." Double course..... 10 hours
- B. **READING OF GERMAN PEDAGOGICAL WORKS** — This course is based upon the work done in Individual and Scientific Psychology. Some such books as Keber's "Zur Philosophie der Kindersprache," or Lobisch's "Die Seele des Kindes," will be read. For advanced students only ..... 5 hours
- C. **GERMAN LITERATURE** — An outline course with supplementary reading; for students with one or more year's preparation..... 5 hours

## GREEK

- A. **ELEMENTARY COURSE** — For beginners. Text-book: Gleason and Atherton's First Greek Book.
- B. **XENOPHON'S ANABASIS** — Books I, II or III. Especially adapted for those who need to complete their preparation for college. Industrious and capable students may possibly arrange for a double course in Xenophon.

Work satisfactorily done may be counted towards admission to the University.

## HISTORY

- A. **AMERICAN HISTORY** — Political History of the Colonies and of the United States. 1750-1820, Hart's "Formation of the Union" used as a basis. Recitations and lectures. Specially designed for teachers ..... 5 hours

## LATIN

- A. **CICERO'S ORATIONS** — With special emphasis upon grammatical forms, idiomatic translation, Latin Prose Composition, and Roman History ..... 5 hours
- B. **VERGIL'S ÆNEID** — With careful attention to poetic forms, prosody, mythology, Roman life and customs..... 5 hours
- If the demand warrants, a second class will be formed to do additional reading in Cicero or Vergil. Work satisfactorily done may be counted towards admission to the University.

## MATHEMATICS

- A. Courses will be offered in Algebra, Geometry, Trigonometry; also in such higher Mathematics for which there may appear sufficient demand. A special class will be formed for the critical examination of text-books in Mathematics used in the public schools of Ohio.

## PHYSICAL TRAINING

- A. **TEACHERS' COURSE** — Swedish gymnastics adaptable to public school work ..... 5 hours
- B. A course of gymnastics progressing from the light free-hand work to elementary apparatus work. Gymnastic and out-of-door games.... 5 hours

## PEDAGOGY

- A. **INDIVIDUAL AND GENETIC PSYCHOLOGY**— Lectures, demonstrations and seminars reviewing the studies of children and of adults with special reference to their relations to educational questions. Laboratory practice in testing the senses, motor ability, etc. A single course ..... 5 hours

## PHILOSOPHY AND PSYCHOLOGY

- A. **PSYCHOLOGY** — Dr. Scott. Text-book, lectures and discussions. For teachers and those intending to teach. A single course, one hour daily; or a double course, two hours daily..... 5 or 10 hours
- A. **PHYSIOLOGICAL AND EXPERIMENTAL PSYCHOLOGY**— Mr. Wissler. Lectures and demonstrations supplemented by laboratory practice. A general course aiming at an exposition of psychological, psychophysical and inductive methods of psychological research. A single course, one hour daily; or a double course, two hours daily. Laboratory fees \$1.00..... 5 or 10 hours



## PHYSICS

- A. **DOUBLE COURSE**, in elementary Physics, either through Kinetics and Heat, or through Electricity, Magnetism, Sound and Light..... 10 hours
- B. **SINGLE COURSE**, in laboratory practice; along lines depending on ends in view ..... 5 hours
- C. **DOUBLE COURSE**, in laboratory, as above..... 10 hours
- D. **SPECIAL COURSE**, to make up deficiencies in preparation or record in elementary Physics.
- Fees in any single course, \$1.00.

## ZOOLOGY AND ENTOMOLOGY

**VERTEBRATE AND INVERTEBRATE MORPHOLOGY** — Classes will be formed to suit applicants — as far as possible.

## SUMMER LIBRARY SCHOOL

This school was under the direction of Dr. G. E. Wire, formerly of Columbia College Library, New York, and lately of the Newberry Library, Chicago.

This school gave a fifteen hour course, one hour being devoted to cataloging, one hour to classification and one hour to other forms of library work. This class work was in the morning, leaving the afternoon for individual and practice work.

Under cataloging was considered, not only author and subject cataloging, but also accessioning, shelf-listing, preparation of books for the shelves and preparation of finding lists and special lists. Classification took up largely the decimal classification, but instruction was offered in the expansive classification.

The miscellaneous heads included book selection and buying, book binding and repair, purchase and care of periodicals, care of pamphlets and clippings, public document, stock-taking, arrangement and care of rooms, shelves, fittings and supplies, charging systems, stack and open shelves, rules and regulations, reference and reading room work, children's rooms, school work, library legislation, traveling libraries, library associations and periodicals.

To make the course of benefit to as many people as possible, those who intended taking the course specified what they particularly wanted. These preferences were considered, as it is the wish to benefit directly the largest number possible. Aside from the technical work, arrangements were made whereby all interested in library work received advice and instruction in their own peculiar problems. This was planned particularly for library trustees and officers of Women's Clubs, and others who were desirous of some help along their own lines of work.

A portion of each day was devoted to personal work. The Director had a separate hour for his work. In many cases the problems were of so peculiar and so personal a nature as not to admit of class treatment. The director was accessible including lectures at least eight hours a day.

Fees were \$15 for the full course. Special rates for part of the course. Cataloging supplies, such as slips, accession and shelf list sheets were furnished.

## THE DEPARTMENTS



# The Departments

1900-1901

The subjects set forth under each Department limit and define the administrative authority and responsibility of the head of that Department.

## AGRICULTURE

[TOWNSHEND HALL]

*Professor Hunt, Associate Professor Gibbs, Assistant Professor Noyes,  
Mr. Herrick, Mr. Ruhlen*

- 8<sup>1</sup> **BREEDS OF LIVE STOCK.** Lectures and recitations three times a week upon the history, characteristics, adaptation, care and management of the different breeds of domestic animals. Practicum once a week in scoring and judging live stock. First term.
9. **PRINCIPLES OF BREEDING.** Lectures and recitations three times a week upon the laws of heredity and their practical applications. Practicum once a week in scoring and judging live stock, and in writing and tracing pedigrees. Second term.
10. **STOCK FEEDING AND HYGIENE.** Lectures and recitations three times a week upon the laws of nutrition, the character of food stuffs, the relation of the food to the animals, and the kind and quality of food to produce given effects. Practicum once a week in calculating digestibilities, nutritive ratios and feeding standards. Third term.
11. **FARM EQUIPMENT.** Lectures and recitations three times a week upon selecting, planning and equipping farms; planning and erecting farm buildings and fences; building roads; farm vehicles and machinery; power, water and drainage. Practicum once a week in drawing plans of farms and farm buildings; leveling and laying drains; dynamometer tests of wagons and farm implements. First term.
12. **SOILS.** Lectures and recitations three times a week upon the origin, formation, kinds, and physical properties of soils, and their improvement by cultivation, fertilization, drainage, and irrigation. Practicum once a week in laboratory testing physical properties of several soils, determining the relation of soils to heat, moisture, air, and fertilizers, and making mechanical analysis. Second term.
13. **FARM CROPS.** Lectures and recitations three times a week upon the history, production, marketing, cultivation, and harvesting of farm crops. Practicum once a week with growing and dried specimens of farm crops, including grasses, clovers, and other forage crops. Third term.

<sup>1</sup>These numbers are "finding numbers," and do not necessarily indicate the sequence of topics.



14. **ANIMAL MECHANICS AND EXTERIOR.** Lectures and recitations three times a week upon animal mechanics, proportions, and the relation of the latter to specific uses. Practicum once a week in measuring animals and testing the value of given measurements for given purposes. First term.
15. **BUTTER MAKING AND CHEESE MAKING.** Recitations twice a week. Laboratory practice two half days each week in running separators, churning and working butter, making cheese, and testing and pasteurizing milk. Second term.
16. **HISTORY OF AGRICULTURE AND RURAL ECONOMICS.** Lectures and recitations upon the history of agriculture; present agricultural methods in various countries; cost and relative profits of various farm operations and systems. Four times a week. Third term.
5. **DAIRY FARMING.** Lectures once a week upon breeds, and upon feeding, breeding and selecting dairy stock; equipment and management of dairy farms. Practicum once a week in scoring and judging live stock, writing pedigrees, and calculating feeding standards. Second term.
6. **BUTTER MAKING AND CHEESE MAKING.** Practice in running separators, churning and working butter, etc., making cheese and testing and pasteurizing milk. Four half days each week. Second term.
7. **BUTTER MAKING AND CHEESE MAKING.** Lectures and recitations. Two hours each week. Second term.

### AGRICULTURAL CHEMISTRY

[TOWNSHEND HALL, Rooms 29, 35, 34 and 30]

*Professor Weber, Mr. Vinson*

1. **PRINCIPLES OF CHEMISTRY AND CHEMICAL NOMENCLATURE.** Lectures and textbook for three or four weeks, five times a week; then lectures twice a week on Chemistry of Non-metals, and laboratory practice three times a week. First term.
8. **ORGANIC CHEMISTRY.** Lectures twice a week; laboratory practice three times a week. Second term.
9. **APPLICATION OF CHEMISTRY TO AGRICULTURE.** Lectures twice a week; laboratory three times a week. Third term.
4. **LABORATORY.** Analysis of fertilizers, feed-stuffs, dairy products, fruits, vegetables, alcoholic liquors, etc. Five laboratory periods a week through the year.
7. **CHEMISTRY OF MILK AND MILK TESTING.** Twice a week. Dairy Course.
6. **LABORATORY.** Five times a week through the year.

### AMERICAN HISTORY AND POLITICAL SCIENCE

(See History.)

### ANATOMY AND PHYSIOLOGY

[BIOLOGICAL HALL, Rooms 12 and 20]

*Professor Bleile, Assistant Professor Morrey, Mr. Dresbach*

COLLEGES OF AGRICULTURE, PHARMACY, AND VETERINARY MEDICINE

1. **HUMAN ANATOMY AND PHYSIOLOGY.** Lectures, recitations and laboratory work three times a week. First, second and third terms. This course must be preceded by, or accompanied with, a course of chemistry.

2. **GENERAL PHYSIOLOGY.** Lectures, recitations and demonstrations. Three times a week. Third term. [Short Course in Agriculture.]
3. **CHEMICAL PHYSIOLOGY.** Five times a week. Third term. [Domestic Economy Course.]
4. **HISTOLOGY AND HISTO-CHEMISTRY.** Five times a week through the year. This course must be preceded by, or accompanied with, a course in chemistry.
5. **MICROSCOPY AND URINARY ANALYSIS.** Lectures and laboratory work. Twice a week. Third term.
6. **BACTERIA,** in their relation to Milk, Butter and Cheese. Lectures and laboratory work. Twice a week. Second term.
7. **BACTERIOLOGY.** Three times a week. Second term. [Veterinary Medicine.]
8. **BACTERIOLOGY.** One lecture, one laboratory period, a week. Second term. [Pharmacy.]
9. **PHYSIOLOGICAL LABORATORY.** Three times a week. [May include work in bacteriology.]

## COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

*First Semester*

- 51<sup>1</sup>. **HUMAN ANATOMY AND PHYSIOLOGY.** Lectures, recitations and laboratory work. Three times a week.
53. **PHYSIOLOGICAL LABORATORY.** Three laboratory periods a week.
55. **PHYSIOLOGICAL LABORATORY.** Five laboratory periods a week.
57. **BACTERIOLOGY.** One lecture, one laboratory period a week.
59. **HISTOLOGY AND HISTO-CHEMISTRY.** Laboratory. Five laboratory periods a week.
61. **BACTERIOLOGY.** One lecture, two laboratory periods a week.

*Second Semester*

52. Continuation of Course 51. Three times a week.
54. Continuation of Course 53. Three laboratory periods a week.
56. Continuation of Course 55. Five laboratory periods a week.
58. **MICROSCOPY.** Lectures and laboratory work. Twice a week. Last half of semester.
60. Continuation of Course 59. Five laboratory periods a week.

## ANCIENT ART

(See Greek Language and Literature.)

## ARCHITECTURE

(See Drawing.)

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<sup>1</sup>"Finding numbers" from 51 upwards always indicate Semester work.

## ASTRONOMY

[EMERSON McMILLIN OBSERVATORY]

*Associate Professor H. C. Lord, Mr. Maag*

## COLLEGE OF ENGINEERING

2. **ASTRONOMY AND GEODOSY.** Lectures on practical Astronomy, supplemented by practice with the instruments of the Emerson McMillin Observatory. Text-book, Doolittle. Four times a week. Third and first terms.
3. **METEOROLOGY.** Twice a week. Third term. [Agriculture and Horticulture.]

## COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

52. **GENERAL ASTRONOMY.** Lectures and recitations. Five times a week. Second half, second semester.
54. **MATHEMATICAL ASTRONOMY.** Five times a week. Second semester. Consult Professor Lord.
- 55, 56. **THEORETICAL ASTRONOMY.** Lectures and Observatory practice. The theory of the undisturbed motion of a planet or comet and the calculation of ephemerides. Parabolic orbits from three complete observations. Orbits from three complete observations, including the eccentricity. Work in the Observatory with the twelve-inch equatorial. Definite orbits. Observatory work continued. Authorities: Watson, Klinkerfeus, Appolzer and the astronomical journals. Five times a week through the year.
- 57, 58. **ASTRO-PHYSICS.** Lectures on the theory of the Spectroscope and its use in Astronomy, supplemented by practice with the large spectroscope of the Observatory. Five times a week through the year.  
Astronomy 55, 56, 57 and 58 are open only to students who have had Calculus.
60. **METEOROLOGY.** Twice a week. Second half, second semester.

## BOTANY

[BOTANICAL HALL]

*Professor Kellerman, Mr. Schaffner, Mr. Collett*

## COLLEGES OF AGRICULTURE, PHARMACY, AND VETERINARY MEDICINE

1. **ELEMENTARY BOTANY.** Lectures, recitations and field work. Text-book: Kellerman's *Elementary Botany* and *Spring Flora*. Must precede all other courses in this department except course 9. Five times a week. Third term.
4. **MEDICAL BOTANY.** Twice a week, second term. Similar to course 56 in the College of Arts, Philosophy and Science. Reference book: Maisch's *Organic Materia Medica*.
6. **PHYSIOLOGICAL BOTANY.** Lectures, recitations, and laboratory work. Barnes' *Plant Life*. Five times a week. First term.
- 6a. **SYSTEMATIC AND PHYSIOLOGICAL BOTANY.** Lectures, recitations and laboratory work. Barnes' *Plant Life*. Five times a week. First term.
7. **PHYSIOLOGICAL AND ECONOMIC BOTANY.** Lectures, recitations and laboratory work. Barnes' *Plant Life*. Five times a week. Second term.

8. **VEGETABLE PATHOLOGY.** Lectures, recitations and laboratory work. Five times a week. Third term.
9. **DENDROLOGY.** Lectures, field and laboratory work. Twice a week, first term. Open to students who have not studied Botany.

## COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

*First Semester*

51. Similar to Course 1 in College of Agriculture.
53. Similar to Course 6a in College of Agriculture. Four times a week.
55. **SYSTEMATIC AND PHYSIOLOGICAL BOTANY.** Lectures, recitations, laboratory and field work. Barnes' *Plant Life*. Four times a week.
57. **LABORATORY WORK.** Fungi, Algae, Bryophyta. Two or three times a week.
59. **ADVANCED LABORATORY WORK IN HISTOLOGY AND PHYSIOLOGY.** Five times a week. Open to students who have taken Course 53 or 55.
61. **SYSTEMATIC BOTANY. PHENOGAMIC AND CRYPTOGAMIC.** Three to five times a week. Open to students who have taken Course 53 or 55.
63. **MONOGRAPHIC WORK.** Graduate Course. Credit five or ten hours.
65. **RESEARCH WORK IN MORPHOLOGY AND PHYSIOLOGY.** Graduate Course. Credit five or ten hours.

*Second Semester*

56. **MEDICAL BOTANY.** Laboratory work. Maisch's *Organic Materia Medica*. Twice a week. First half of semester. This course must be preceded by Course 53.
58. Continuation of Course 57. Pteridophyta, Gymnospermae, Angiospermae. Two or three times a week.
60. Continuation of Course 59. Five times a week.
62. Continuation of Course 61. Three to five times a week.
64. Continuation of Course 63. Credit five or ten hours.
66. Continuation of Course 65. Credit five or ten hours.

## CHEMISTRY

[CHEMICAL HALL, Rooms 24, 25, 14, 21, 22, 7 and 18]

*Professor McPherson, Professor Norton, Assistant Professor Henderson,  
Mr. Kohr, Mr. Gore*

## COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

*First Semester*

51. **ELEMENTARY CHEMISTRY.** Arranged for students who have little or no knowledge of Chemistry. Three sub-divisions; one lecture, one quiz, and three hours' laboratory practice weekly. In the laboratory the student performs an extended series of experiments illustrating the principles of Chemistry. Three hours credit.
53. **QUALITATIVE ANALYSIS.** Laboratory, lectures and quiz. Students familiarize themselves with the properties of the elements with a view to their detection, and then apply this knowledge to analysis of unknown substances. Three to five times a week. This course must be preceded by Courses 51 and 52.



55. **QUANTITATIVE ANALYSIS.** Laboratory, lectures and recitations. Use of the balance and general principles of gravimetric analysis. Drill in the solution problems in quantitative analysis; study of properties of precipitates; principles of volumetric analysis. Selections are made from such analytical methods as best meet the needs of the student. The samples used for analysis are mixtures or commercial products the percentage composition of which is not made known to the student until he has reported his own results. Five times a week.
57. **ORGANIC CHEMISTRY.** Laboratory, lectures and recitations. Open only to students who are familiar with at least the principles of quantitative analysis. Five times a week.
59. **ADVANCED CHEMISTRY.** Laboratory. Arranged for special students who have had courses 53, 54, 55, 56, 57; also course 58 for students in Organic Chemistry. Students are allowed to select such work as they are capable of undertaking — as, the critical examination of analytical methods as well as the study of new methods. Five times a week.
- 61a. **INORGANIC PREPARATION.** Laboratory. This course includes the preparation of inorganic substances from the crude materials. Special attention is given to the preparation of chemically pure compounds, to be used in certain quantitative processes. Thorpe's text-book on Inorganic Preparations is used, and reference is made to Bender and Erdmans' *Anorganische Preparatione* and Krauche's *Prufung Chemischer Reagentien*. This course must be preceded by quantitative analysis. Four times a week until the Christmas Recess.
- Students electing this course must follow with theoretical chemistry and sanitary analysis.
- 61b. **PHYSICAL CHEMISTRY.** Lectures and recitations. A course of twelve weeks beginning after the Christmas Recess. Four times a week.
63. **CHEMICAL SEMINARY.** Special students will meet to discuss special topics and reviews of current literature. Once a week.
65. **ELECTROLYTIC ANALYSIS.** Laboratory. Extended practice is given in quantitative electrolytic analysis. Twice a week.

#### Second Semester

52. Continuation of Course 51. Three hours' credit.
54. Continuation of Course 53, including use of Spectroscope.
56. **QUANTITATIVE ANALYSIS.** Continuation of Course 55. Five times a week.
58. **ORGANIC CHEMISTRY.** Laboratory. Continuation of Course 57. Arranged for students who wish to specialize in organic chemistry. The course includes further preparation of typical organic compounds and organic combustions. Five times a week.
60. Continuation of Course 59.
64. Continuation of Course 63.
66. Repetition of Course 55.
68. **SANITARY ANALYSIS.** Laboratory and Lectures. A study of the most important chemical methods for the analysis of water and air. This course must be preceded by quantitative analysis, and at least the equivalent of Course 61 in Anatomy and Physiology (bacteriology). The course extends over the last ten weeks of the second semester.

Students who can elect but one year of Analytical Chemistry, will take Courses 53 and 66. Others will take 53 and 54, then follow with 55, 56 and 57.

## COLLEGES OF ENGINEERING AND PHARMACY

7. **ELEMENTARY CHEMISTRY.** Inorganic, Lecture, Laboratory and Quiz. Laboratory work; First Term, experiments upon the non-metals; Second Term, principles of qualitative analysis. Five times a week. First and Second Terms. (All four-year Engineering Courses, and long and short Courses, Ceramics, Mine Engineering and Pharmacy.)
12. **QUALITATIVE ANALYSIS.** Five times a week. Third term.
13. **QUALITATIVE ANALYSIS.** Three laboratory periods a week. Second term. (Short Course in Mining.)
4. Similar to Courses 55 and 56. Five times a week through the year.
8. **ORGANIC CHEMISTRY.** Lectures. Five times a week. First term.
9. **ORGANIC CHEMISTRY.** Laboratory. Similar to Course 58. Five times a week. Second and third terms.
11. **TOXICOLOGY.** Lectures. Poisons—their effects, antidotes and detection. Four times a week. Third term.
14. **THEORETICAL CHEMISTRY.** Lectures and Recitations. Three times a week. Second term.
15. **SANITARY ANALYSIS.** Similar to Course 68. Four times a week. Third term.
16. **APPLIED CHEMISTRY.** Lectures on Industrial Chemistry. These are made as practical as possible by visits to different chemical works. When possible specialists deliver lectures on subjects belonging to their particular line of work. Three times a week. Second term.
17. **INORGANIC PREPARATIONS.** Similar to Course 61. Four times a week. First term.
18. Similar to Course 57.
19. Similar to Course 66.

For Courses in the technical analysis of iron, steel and allied products, see the Department of Mining and Metallurgy.

For Courses dealing with the application of Chemistry to Agriculture, see the Department of Agricultural Chemistry.

## CIVIL ENGINEERING

[HAYES HALL, Rooms 14 and 19]

*Professor Brown, Assistant Professor Sherman*

1. **LAND SURVEYING.** Recitations and field work. Johnson's Theory and Practice of Surveying. Six times a week. First term. Second year.
2. **RAILROAD SURVEYING.** Recitations and field work. Searle's Field Engineering. Six times a week. Third term. Second year.
3. **TOPOGRAPHICAL SURVEYING.** Lectures, field work and drawing. Johnson's Surveying used for reference. Four times a week. First term. Third year.
4. **TOPOGRAPHY.** Platting, pen and tinted work. Reed's Topographical Drawing and Sketching. Four times a week. Second term. Second year.
5. **WORKING DRAWINGS IN RAILWAY CONSTRUCTION.** Lectures and drawing and estimates of simple structures. Three times a week. Second term. Third year.
6. **STEREOTOMY.** Recitations, drawing and model cutting. Warner's Stereotomy. Four times a week. Second term. Third year.

7. **BRIDGE STRAINS.** Recitations and lectures. Part I of Dubois's Strains in Framed Structures. Five times a week. Third term. Third year.
8. **BRIDGE DESIGNING.** Lectures and drawing. Part II of Dubois's Strains in Framed Structures and Johnson's Modern Framed Structures used for reference. Five times a week. First term. Fourth year.
10. **SANITARY ENGINEERING.** Lectures. Five times a week. Third term. Fourth year.
14. **CIVIL ENGINEERING LABORATORY.** Cement testing, adjustment of instruments. Twice a week. Second term. Fourth year.
15. **MASONRY CONSTRUCTION.** Recitations and lectures. Baker's Masonry Construction. Five times a week. First term. Fourth year.
16. **HIGHWAYS.** Lectures on roads, streets, canals, railroads and rivers. Five times a week. Second term.  
Fourth year students in Civil Engineering must elect either 16 or 17.
17. **RAILWAY LOCATION.** Recitations and lectures. Wellington's Economic Theory of Railway Location. Five times a week. Second term.  
Fourth year students must elect either 16 or 17.
18. **WATER SUPPLY.** Recitations and lectures. Fanning's Water Supply. Five times a week. Third term. Fourth year.
19. **TRUSSES.** Lectures and drawing. Five times a week. Third term.  
Third year, Mine Engineering and Mechanical Engineering.
20. **ROOF TRUSSES.** Lectures and drawing. Five times a week. First term.  
Third year, Architecture.
21. **SURVEYING.** Recitations and field work. Davies' Surveying. Three times a week. Third term.  
Third year, Architecture.
22. Summer Course in Surveying. Following the Second Year. This Course begins on Thursday after Commencement and runs for four weeks of six days per week. The class will be taken in camp and will devote all their time to the practice of land and elementary railroad surveying, and to the computations, drawings and reports necessary to such work.  
The Course is open to students who have credit for Courses 1 and 2. Students having conditions in Courses 1 or 2 may take the Course with the permission of the head of the department.
23. Summer Course in Surveying. Following the Third Year. This Course begins on Thursday after Commencement and runs for four weeks of six days per week. The class will be taken in camp and will devote all their time to the study and practice of advanced railroad surveying and to the various kinds of topographical surveying and to the making of computations, drawings and reports necessary to such work. This Course is a continuation of Course 22 and must be preceded by Courses 3 and 22.  
The Course is open to students who have credit for Courses 3 and 22. Students having conditions in Courses 3 or 22 may take Course 23 with the permission of the head of the department.

## CLAY WORKING AND CERAMICS

[ORTON HALL, Rooms 18, 27, 26 and 25]

*Professor Edward Orton, Jr., Mr. Bleining*

1. **QUANTITATIVE ANALYSIS OF SIMPLE MINERALS.** This course is open only to those who have completed General Chemistry. The student begins the quantitative analysis of salts and chemicals, and later works on limestone and other easy minerals. Five times a week. First term.



2. Continuation of Course 1. The student begins the quantitative analysis of clays and complex minerals, working first on samples of known composition, and later on unknown materials. Five times a week. Second term.
3. Continuation of Course 2. The student completes the ultimate analysis of clays, and begins the proximate or "Rational" analysis of clays and pottery bodies, following the methods of Seger. Five times a week. Third term.
4. **A SERIES OF LECTURES** (supplemented by frequent recitations) on the origin, composition and properties of clays and other minerals employed in the clay, glass, and cement industries. Five times a week. First term. Laboratory work in the physical testing of clays, and in their mechanical analysis.
5. Continuation of Course 4. A series of lectures, with recitations, on the general principles of the manufacture of bricks and the coarser clay wares, including the selection and winning of the materials, their preparation, manufacture, burning and testing. Five times a week. Second term.
6. Continuation of Course 5. A series of lectures, with recitations on the classification and manufacture of pottery and the finer grades of clay wares, including the selection of materials, preparation of the bodies, manufacture of the ware, preparation of the glazes, burning and decoration of the wares, and the pyrometry of ceramics. Five times a week. Third term.
7. Continuation of Course 3. Open only to those who have completed that course. The analysis of glasses and glazes, devoting special attention to the use of hydrofluoric acid in silicate analysis, and to the determination of lead and boracic acid. Five times a week. Second term.
8. Continuation of Course 7. The further analysis of colored glasses and glazes, enamels, and ceramic colors, especial attention being given to the determination of the coloring and opacifying oxides. Five times a week. Third term.
9. **LABORATORY WORK IN CERAMICS.** Open only to those who have completed Courses 3 and 6. The student will first undertake the production of such wares as are made from single clays, such as bricks for building and paving purposes; then those wares whose bodies are made by blending two or more natural clays, such as firebrick and refractory materials, earthen-ware, stonewares, and yellow wares; and lastly, such wares as are made by the building up of an artificial body, such as is used in the production of white wares, porcelain, and in glazed and encaustic tiles. In each case the bodies made will be made into appropriate wares, burnt, and tested as to quality. Five times a week. First term.
10. Continuation of Course 9. The student will practice on the production of glasses and glazes, beginning with the natural "slip glazes," and taking successively the soft raw-lead glazes, the fritted lead-boracic-acid glazes, and the hard-fire leadless porcelain glazes. In each case the glazes will be made for use on some definite body, and will be made to "fit" it accurately. Five times a week. Second term.
11. Continuation of Course 10. The student will practice on the use of the coloring and opacifying oxides on glazes, and on the production of vitrifiable colors for the underglaze and overglaze decoration of pottery, and in the production of body-stains for encaustic wares. Five times a week. Third term.



12. A series of lectures on the manufacturing and testing of natural and Portland cements and hydraulic silicates. Open to students who have had courses 3 and 6. Facilities for laboratory work in making, burning, and testing cements will be given. Five times a week. Second term.
13. Practice in making drawings and specifications for brick kilns, brick dryers, pottery kilns, gas producers, glass pot-furnaces, glass tanks, cement kilns, and burning cylinders. Students will be allowed to specialize along the lines they intend to follow. Twice a week. Second term.
14. **MINERAL REPORTS.** A series of lectures and recitations, with frequent quizzes on the prospecting and opening up of mineral properties, and in the inspection of factories and ceramic plants, with a view to recommending economic changes in them. Frequent trips will be made to the important clay-working centers of Ohio for field-work and practice in observation. Students will be allowed to specialize along their intended lines. Five times a week. Third term.
15. **THESIS.** A satisfactory thesis, involving original investigation and special study must be completed as a requisite for graduation. The subjects for these must lie inside the range of ceramic work, but can be made to follow the line along which the student has been specializing.

## DOMESTIC ECONOMY

[HAYES HALL, Rooms 1, 3 and 10]

*Associate Professor Bowman, Assistant Professor Souther*

## DOMESTIC SCIENCE

1. **FOOD ECONOMICS.** The evolution of society as affected by food conditions, the study and classification of food principles. The preparation and serving of typical foods of various classes.  
One lecture and three laboratory periods a week. Four hours credit. First term.
2. **CONTINUATION OF COURSE I.** Comparative nutritive and money values of foods. Preparation of weekly dietaries for an average family. (Cost limited by instructor. U. S. Bulletin standards used). Preparation and serving of typical foods of various classes.  
One lecture and three laboratory periods a week. Four hours credit. Second term.
3. **EMERGENCY WORK AND HOME NURSING.** Study of dietetic treatment for various diseases. Invalid cookery.  
One lecture and three laboratory periods a week. Four hours credit. Third term.
4. **PRESERVATION OF FOODS.** Four weeks.  
Hygienic Care of Clothing. Laundry Work (Demonstration). Eight weeks.  
One lecture and three laboratory periods a week. Four hours credit. First term.
10. **HOUSEHOLD ECONOMICS.** The ordering of Housework. Keeping of household accounts. Home sanitation and hygiene considered.  
One lecture (illustrated if necessary) a week. One hour credit. Third term.

## DOMESTIC ART

5. **PRIMITIVE AND ANCIENT INDUSTRIAL LIFE.** Its effect upon the artistic and industrial evolution of society.  
Sewing Methods considered. Preparation by hand of a series of models.  
One lecture and three laboratory periods a week. Four hours credit.  
Second term.
6. **TEXTILES.** Study of fibres, and their growth. The process of manufacture. The effect upon industrial activity. Draughting and cutting of wash fabrics. Machine work on same.  
One lecture and three laboratory periods a week. Four hours credit.  
Third term.
2. **HYGIENIC AND ARTISTIC DRESS.** Consideration of line, form and color. Choice and treatment of textiles.  
Principles of dress making and millinery. Designing.  
One lecture and three laboratory periods a week. Four hours credit.  
First term.
8. **ART APPLIED TO DRESS AND HOME DECORATION.** Millinery, dressmaking and art needlework.  
One lecture and three laboratory periods a week. Four hours credit.  
Second term.
9. **HISTORY OF DOMESTIC ART AND ARCHITECTURE.** Woman's tailoring.. House Decoration.  
One lecture and three laboratory periods a week. Four hours credit.  
Third term.
- 11, 12, 13. The same work as under 5, 6; except that it is expanded and made continuous through the entire year, as an elective to young women carrying other courses in this or other Colleges of this University. Credits are three hours first term. University credits are three hours first term, three hours second term, two hours third term.

## DRAWING

[HAYES HALL, Rooms 22, 24 and 37]

*Associate Professor Bradford, Assistant Professor French, Mr. Lewis*

1. **FREEHAND DRAWING.** Practice and occasional lectures. Pencil, charcoal, pen and water-color drawing from copies, models and plaster casts.  
One drawing period a week, three terms, Industrial Arts.  
Two drawing periods a week, first term, Short Mining and Domestic Economy.  
Two drawing periods a week, first and second terms; all four-year Engineering Courses.  
Three drawing periods a week, three terms, Architecture.
2. **LETTERING.** Practice and occasional lectures.  
Two drawing periods a week, third term, Industrial Arts, and Short Mining.  
Three drawing periods a week, third term, Ceramics, Civil, Electrical, Mechanical and Mine Engineering, and Architecture.  
This Course must be preceded by Course 1.

3. **MECHANICAL DRAWING.** Lectures or recitations, one period a week. Practice two periods a week. All Engineering, Industrial Arts, Architecture. Subjects: Orthographic, Isometric and Oblique Projection and elementary Working Drawings. First term.

Lectures or recitations two periods a week. Practice one period a week, in Industrial Arts and in all Engineering Courses except Civil Engineering; three periods a week in Civil Engineering and Architecture. Subject: Descriptive Geometry. Second term.

Lectures or recitations, one period a week. Practice, two periods a week in Engineering Courses; four periods a week in Architecture. Subject: Shades, Shadows and Perspective. Third term, in all four-year Engineering and Industrial Arts Courses and the Course in Architecture. First term in the Short Mining and Domestic Science Courses.

This Course must be preceded by Course 2.

4. **DRAUGHTING AND BLUE-PRINTING.** Practice and occasional Lectures. Three periods a week, second term. Arranged especially for the students in the Short Mining Course. This Course must be preceded by the first term of Course (3).
5. **TECHNICAL DRAWING.** Lectures and Practice. Rules and methods for working drawings, tracing, blue-printing, machine design and practice in making same to represent form and dimensions for shop use. Three periods a week. First term, Mechanical and Electrical Engineering Courses. This Course must be preceded by Courses (2) and (3).
7. **PHOTOGRAPHY.** Lectures and Practice. Lectures: Optics of Photography, chemistry of photography, exposing and developing, printing, lantern slides, orthochromatic photography and some of the applications of photography. Practice in outdoor, interior, instantaneous and flash-light photography, copying, lantern slides, and printing. Two periods a week. Ceramics, Architecture, first term. Civil, Mechanical and Mine Engineering, third term. The first term of this Course is elective.
8. **MECHANICAL DRAWING.** Lectures and Practice. Geometric and Projection Drawing. Two periods a week, first and second terms, Industrial Arts.
10. **MECHANICAL DRAWING.** Lectures and Practice. Arranged especially for the students in Agriculture and Horticulture. Two periods a week, first term.
11. **MECHANICAL DRAWING.** Lectures and Practice. Arranged especially for the students in Short Course in Ceramics, five periods a week, third term.
12. **CLAY MODELING.** Modeling in Clay and Casting in Plaster, ornamental forms from designs, photographs, nature and original designs. Two periods a week; first, second and third terms.

This Course must be preceded by Course (1).

Domestic Economy Course, second term. Architectural Course, second and third terms. This Course must be preceded by Course (1).

13. **TECHNICAL AND DECORATIVE DESIGN.** Lectures and Practice. Lectures on the principles of decorative design in monochrome, color and relief, and practice in the same. Two periods a week; first, second and third terms.
14. **PEN DRAWING.** Two periods a week, first term. Arranged especially for the Course in Architecture. This Course must be preceded by Course (1).
15. **TECHNICAL DRAWING.** Lectures and practice. House Designing. Five periods a week, third term. Domestic Economy.
16. **LECTURES AND PRACTICE.** Technical Drawing consisting of the designing and preparation of specifications of structures related to agriculture. Three periods a week, third term.

## ART

An elective course in Art offered by Department of Drawing especially for the students of the Domestic Economy Course, but may be taken by any other students of the University.

Must be preceded by Course 1 in Drawing or its equivalent elsewhere.

17. **LECTURES AND PRACTICE.** Lectures on color standards, color theory, color harmony, color appearances, tone and gradation, atmosphere and values. Practice in color work either water or oil color. First term. Lectures illustrated by lantern slides.
18. **LECTURES AND PRACTICE.** Lectures on objects of art, ideas and subjects, style and individuality, schools of art, great artists including old and modern masters. Illustrated by lantern slides. Practice in water or oil painting from still life. Second term.
19. **LECTURES AND PRACTICE.** Lectures will be a continuation of second term's work and including sculpture and the master sculptors. Illustrated by lantern slides. Practice in water or oil painting from life and nature or clay modeling. Third term.

The above is to be offered as an elective for two or three hours as follows: Lecture for one hour and practice for two or four hours as the student has time.

## ARCHITECTURE

1. **ORDERS OF ARCHITECTURE.** Detail drawing of the Orders, to accompany the study of Ancient Art. One lecture, and four practice periods a week, second term.
2. **STYLES OF ARCHITECTURE.** Lectures and drawing of Architectural Details representing the characteristic styles in Architecture. One lecture, and four practice periods a week, third term.
3. **DESIGNING.** Lectures and Designing of Architectural structures adapted to modern requirements. Five periods a week; first, second and third terms.
4. **SPECIFICATIONS.** Lectures and Practice in preparing specifications for Architectural Structures. Two periods a week, first term.
5. **DECORATION AND ORNAMENT.** Lectures. The practice part of this Course will be incorporated in Courses (3) and (8). Three periods a week, second term.
6. **ESTIMATES.** Lectures and Practice in preparing estimates for structure designed in Courses (3) and (8). Four periods a week, third term. The duties of a superintendent will be considered in this Course.
7. **HEATING AND VENTILATING AND PLUMBING.** Lectures. The practical applications of this Course will be incorporated in Courses (3) and (8). Five periods a week, second term.
8. **DESIGNING.** Lectures and Practice. Designing of buildings requiring steel and fire-proof construction. Five periods a week, third term.



## ECONOMICS AND SOCIOLOGY

[UNIVERSITY HALL, Rooms 17 and 18]

*Associate Professor Clark*

Course 51 or Course 52 must precede all other Courses.

*First Semester*

51. **ELEMENTS OF POLITICAL ECONOMY.** A careful study of the laws of production, exchange, distribution and consumption of wealth; combined with an analysis of the industrial actions of men as regards land, labor, capital, money, credit, rent, interest, wages, etc. Text-book, lectures and individual investigations. Four times a week. This Course is repeated in the Second Semester (as Course 52). Students who are required to take the subject, those whose names begin with the letters L to Z will take it in the First Semester; others will take it in the Second Semester (as Course 52).
53. **THE HISTORY OF INDUSTRIAL SOCIETY.** A general view of the evolution of industrial society; and a study of causes and effects of past economic policies together with their bearing on existing conditions; with special reference to England and America. Lectures and assigned readings. Twice a week.
55. **PRACTICAL PROBLEMS IN ECONOMICS.** A rapid study of immigration, money, railroads, crises and tariff. Lectures and collateral readings. Twice a week.
57. **THE TRANSPORTATION PROBLEM.** A study of the development and present economic status of roads, canals and railroads in their relation to industry and to the state. Lectures. Twice a week.  
*Not offered in 1899-00.*
59. **PUBLIC FINANCE AND TAXATION.** This course aims to make the student acquainted with the theory of public revenue and expenditure; and with the leading systems of financial administration throughout the world. Municipal indebtedness and corporate financiering are incidentally treated. Text-book and lectures. Twice a week.  
*Not offered in 1899-00.*
61. **SEMINARY IN ECONOMICS.** Two hours a week at one meeting. All students who elect their Major Study in Economics must take this course in their fourth year. Open, as elective, to other students, graduate and advanced under-graduate, on permission of the instructor.
63. **SOCIOLOGY AND STATISTICS.** Lectures and laboratory work. One hour credit. This course may accompany courses 55, 57, 59 or 65.
65. **COMMERCIAL GEOGRAPHY.** A scientific study of business relations and conditions, domestic and foreign; the sources, quantity and quality of products, and the distribution of the same; trade routes and the means of communication. The Consular Reports will constitute one basis of study. Texts and lectures.

*Second Semester*

52. **ELEMENTS OF POLITICAL ECONOMY.** Text-book, lectures and individual investigations. Four times a week. (This is a repetition of Course 51, and will be taken in the Second Semester by those students (of whom it is required) whose names begin with the letters from A to K.)

53. **THE HISTORY AND THEORY OF SOCIALISM.** Lectures and collateral readings. Twice a week.
56. **INDUSTRIAL AND SOCIAL REFORMS.** A study of labor problems, charities and corrections, monopolies, insurance, trusts, etc. Lectures and collateral readings. Twice a week.
58. **MONEY, CREDIT AND BANKING.** This course involves the history and theory of the subject; a comparative study of monetary systems, currency, etc.; together with various methods of banking; national banks, clearing houses, sub-treasury, etc.; and a critical analysis of proposals for reform. Texts, lectures and collateral reading. Twice a week.  
*Not offered in 1899-00.*
60. **INDUSTRIAL AND FINANCIAL HISTORY OF THE UNITED STATES.** A complete survey of American industries, financial resources and policies; public lands, government subsidies, internal revenue, etc.; history and description of the Treasury and Interior Departments, the Mints, etc. Lectures and collateral readings. Twice a week.
62. **SEMINARY IN ECONOMICS.** Two hours a week at one meeting. This is a continuation of Course 61, and is open only to those who have had that course. All students who elect their Major Study in Economics must take this Course in their fourth year. Open, as elective, to other students, graduate and advanced under-graduate, on permission of the instructor.
64. **SOCIOLOGY AND STATISTICS.** A continuation of Course 63. One hour credit. May be taken separately or accompany Courses 56, 58, 60 or 66.  
Courses 1 and 2 in the College of Agriculture and Domestic Science are the same as Courses 51 and 52 described above.
66. **COMMERCE AND TRADE.** Theory and practice of business. Standard business forms, commercial paper, stocks and bonds, insurance policies and investment securities of all kinds will be studied with the aid of sample copies. This is an advanced course and should be preceded by four elective courses in the department including Course 60. Required readings and reports on current commercial and financial literature. Lectures.

## EDUCATION

[UNIVERSITY HALL, Rooms 51 and 54]

*Professor Gordy, Mr. Wissler*

*First Semester*

51. **ELEMENTARY EDUCATIONAL PSYCHOLOGY.** This course is intended to be helpful to three classes of students: (1) Those who are not preparing to teach, but who wish to make some study of education in order that they may perform their duties as members of society more intelligently; (2) Those intending to teach and who wish to study the relations between Psychology and education; and (3) Those preparing to be superintendents and who wish to get suggestions as to the best method of teaching Psychology to teachers. The text used is Gordy's *Psychology*. Students will be required to do collateral reading and bring in reports of their work. Four hours a week.

53. **HISTORY OF GREEK EDUCATION.** Students of this course will make a study of the history of the education of the Greeks from the time when life was their only school to the time when Greece became the teacher of the world. The connection between Greek life and Greek education will be sharply emphasized; the defects of Greek ideals of life will be shown as reappearing in Greek ideals and methods of education, and these in turn as exerting an influence on Greek life. This course will be essentially a study of Greek civilization, but with the practical purpose of getting light for the solution of our own problems. It is believed that the courses will be especially helpful to those preparing to teach history, and the classics. The texts used are Davidson's *Greek Education*, and Davidson's *Aristotle*. Readings are required of students in Greek history and Plato's *Dialogues*. Four hours a week.
55. **THE HERBARTIAN PEDAGOGY.** The object of this course is three-fold: (1) To ascertain what the Herbartian Pedagogy is; (2) To determine its truth, and (3) To consider carefully its applicability — so far as it is true — to the schools of this country. Special attention will be given to these Herbartian theories that are most widely current in this country. The texts used are Herbart's *Science of Education*, De Garmo's *Herbart* and Lange's *Apperception*. Four hours a week.
59. **CHILD STUDY.** An elementary course in the growth and development of children, giving special attention to the pedagogical aspect of the subject. Though arranged primarily for teachers this course treats of subjects of universal interest such as the child as a social factor, function of play, the child and self-government, the child and the race, etc. Open to all students. Twice a week.
67. **EDUCATIONAL VALUES.** This course seeks to determine the capacity of the various subjects pursued in elementary and secondary courses to contribute to true educational ideas. The work is based on Fouillie's *Education from a National Standpoint*. Twice a week.
69. A study of Scientific Method; intended especially for those preparing to teach Science. Twice a week.
71. **PEDAGOGICAL RESEARCH.** For teachers and advanced students. Various school problems will be taken up for exhaustive study, thus offering opportunity for an insight into the organization of the school not usually open to undergraduate students. The work will be by topics and largely individual. Special facilities for original investigation will be at the command of students showing themselves competent to do such work. As only a small number of students can be accommodated applications for admission should be made as soon as possible. Twice a week.
73. **MODERN EDUCATIONAL SYSTEMS OF EUROPE.** A brief historical and statistical study of secondary education in Germany, France and England. The work will be based upon such texts as Russel's *German Higher Schools*, Holman's *English National Education*, and will consist of recitations and reports upon original topics. Open to all students. Twice a week.

*Second Semester*

52. **MODERN EDUCATIONAL THEORIES.** These theories will be studied from three points of view: (1) As the expression of a certain philosophy of life; (2) from the point of view of their consistency; and (3) from that of their truth. The work is based on Quick's *Educational Reformers*. Twice a week.

54. **PLATO'S REPUBLIC.** This course is essentially seminary work for the benefit of those students of Course 53 who wish to make a critical study of Plato's *Philosophy of Education*. Twice a week.
56. **THE KINDERGARTEN.** This course is intended especially for those who are preparing to do kindergarten and primary work, and to be superintendents of schools. Twice a week.
58. **THE PHILOSOPHY OF EDUCATION.** This course aims to make a systematic exposition of the philosophy of education. Four times a week.
60. **EDUCATION IN THE UNITED STATES.** A comparative study of secondary education in the United States and Europe presupposing Course 73. Twice a week.
68. A continuation of 67. Twice a week.
70. A continuation of 69. Twice a week.
72. **PEDAGOGICAL RESEARCH.** Continuation of Course 71. Open to students credited with 59 or 71. Twice a week.

## ELECTRICAL ENGINEERING

[ELECTRICAL HALL, Room 9 and Laboratory]

*Associate Professor Caldwell, Mr. Fish*

2. **ELECTRICAL ENGINEERING.** Lectures, Recitations and Problems. Theory of dynamo-electric machinery, including direct current and alternating current generators and motors; methods of regulation and control; circuits, lamps and auxiliary apparatus; storage batteries; applications of electricity to street car and mine working; design, construction, and management of plant. Five times a week. First, second and third terms.
3. **ELECTRICAL DESIGNING.** Including D. C. and A. C. generators and motors, transformers, distribution, etc. Three times a week, through the year.
4. **ELECTRICAL LABORATORY.** A full experimental course in the handling and testing of generators, motors, storage batteries, circuits, etc. Three half days a week. First, second and third terms.
6. **ELECTRICAL ENGINEERING.** Lectures on direct and alternating circuits, dynamo machinery, transformers, accumulators and applications. Twice a week. (First and second terms of fourth year of Civil, Mining and Mechanical Engineering Courses.)
7. **ELECTRICAL ENGINEERING.** Laboratory work on the subjects treated in Course 6, which it accompanies. Twice a week. (First and second terms and fourth year in Civil, Mining and Mechanical Engineering Courses.)

## ENGLISH LITERATURE

[UNIVERSITY HALL, Room 31]

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

*Professor Barrows, Assistant Professor Taylor*

*First Semester*

51. **AN INTRODUCTION TO ENGLISH LITERATURE.** Four times a week. (Must precede all other courses in this semester.)



53. **POETRY FROM SPENSER TO MILTON, EXCLUSIVE OF THE DRAMA.** Twice a week.  
*Omitted in 1899-1900.*
- 55a. **THE BIBLE.** Old Testament. Once a week. *Given in 1901-2.*
- 55b. **THE BIBLE.** Old Testament. Once a week. *Given in 1899-1900.*
- 55c. **THE BIBLE.** New Testament. Once a week. *Given in 1900-1.*
57. **SHAKESPEARE.** Three times a week.
59. **THE NOVEL.** Three times a week. *Omitted in 1900-1.*
61. **FROM DRYDEN TO JOHNSON.** Twice a week. *Omitted in 1900-1.*
63. **PROSE FROM COWPER TO THE VICTORIAN AGE, EXCLUSIVE OF FICTION.** Three times a week. *Omitted in 1899-1900.*
65. **MASTERPIECES.** Three times a week. If elected, must be carried through the year. Open to competent graduates, and to undergraduates who have already taken three elective courses in this department.
67. **CHAUCE.** Twice a week.
69. **LITERARY PROBLEMS.** Twice a week. Required in the third or fourth year of students whose major study is in this department.
71. **VICTORIAN LITERATURE.** Prose. Three times a week. *Omitted in 1900-1.*

*Second Semester*

52. **REPETITION OF COURSE 51.** Four times a week. (Pre-requisite to all electives in this Semester.)
54. **PROSE FROM SPENSER TO MILTON.** Twice a week. *Omitted in 1899-1900.*
- 56a. **THE BIBLE.** Once a week. Continuation of Course 55a. *Given in 1901-2.*
- 56b. **THE BIBLE.** Once a week. Continuation of Course 55b. *Given in 1899-1900.*
- 56c. **THE BIBLE.** Once a week. Continuation of Course 55c. *Given in 1900-1.*  
The study of the English Bible may be continued through three years.
58. **THE DRAMA FROM THE MIRACLE PLAYS TO THE CLOSING OF THE THEATRES.**  
Three times a week.
60. **THE DRAMA SINCE THE RESTORATION.** Twice a week. *Omitted in 1900-1.*
62. **AMERICAN AUTHORS.** Three times a week. *Omitted in 1900-1.*
64. **POETRY FROM COWPER TO THE VICTORIAN AGE, EXCLUSIVE OF THE DRAMA.**  
Three times a week. *Omitted in 1899-1900.*
66. **MASTERPIECES.** Three times a week. Must be preceded by Course 65. Open to competent graduates and to under-graduates who have already taken three elective courses in this department.
68. **TRANSLATIONS.** Twice a week. *Omitted in 1899-1900.* A graduate course, but open also to under-graduates who obtain permission to take it.
70. **LITERARY PROBLEMS.** Twice a week. A continuation of Course 69. Required in the third or fourth year of students whose major study is in this department.
72. **VICTORIAN LITERATURE: POETRY.** Three times a week. *Omitted in 1900-1.*

## COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE — OR TERM COURSES

21. **SHAKESPEARE.** Three times a week. First term. The same as 57, except that it is limited to the first term.
22. **AMERICAN AUTHORS.** Three times a week. Second term. Open to those who take Course 23.
23. **AMERICAN AUTHORS.** Three times a week. Third term. Open to those who have taken Course 22.

Courses 22 and 23 together are the same as Course 62, with a special introduction filling the first twelve weeks of the second term.

All the Semester electives, from 53 to 65, are open to students who may wish to do a full year of work in this department, or who may wish to give one semester to this department and one to any other; but courses 21, 22, and 23 can be elected by those only who wish to take part of a year's work on the term plan. Course 52 is pre-requisite to all electives.

## ENTOMOLOGY

(See Zoology and Entomology)

## EUROPEAN HISTORY

(See History)

## GENERAL CHEMISTRY

(See Chemistry)

## GEOLOGY

[ORTON HALL, Rooms 5, 4, 7 and 13]

*Professor Orton, Associate Professor Prosser, Associate Professor Bownocker*

## COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

*First Semester*

51. **COSMICAL GEOLOGY.** Lithological Geology, Dynamical and Structural Geology. Books of reference used in preparation of their work: Green's *Physical Geology*, Geike's *Text-book of Geology*, LeConte's *Elements of Geology*, Hunt's *Chemical Geology*, Daubree's *Geologic Experimentale*. Five times a week.
53. **PALEONTOLOGY.** Museum work. Determination of groups of Ohio fossils.
55. **PETROGRAPHY 1.** Laboratory and Lectures. Optical crystallography, with practical determination of rock-forming, macroscopically and microscopically. Study of the igneous rocks in the hand specimen and thin section. Twice a week. The Sturtz rock collection and Voight-Hochgesang thin sections of typical minerals and rocks will be carefully studied. Books of reference: Mitchel Levy — *Les Minneaux des Roches*; Rosenbusch — *Mikroskopische Physiographie der Petrographisch Wichtigen Mineralien*, 3d ed.; *Mykroschpische Physiographie der Massigen Gesteine*, 2d ed.; Teall's *British Petrography*; Spottiswoode's *Polarization of Light*. Pre-requisites: Chemistry, 51 and 52; Metallurgy, 52 (Mineralogy and Crystallography).

*Second Semester*

52. **PALEONTOLOGICAL GEOLOGY.** Historical Geology. Books of reference used by students in preparation of their work: Nicholson's *Paleontology*, Zittel's *Paleontologie*, *Ohio Geological Reports*, *Paleontology of New York*. Five times a week.
54. Continuation of Course 53.
56. Continuation of Course 55. Twice a week.
58. **GEOGRAPHIC GEOLOGY.** The origin, development, and destruction of topographic forms. Rivers, lakes, oceans, ice, and winds as agents modifying the surface of the earth. The great ice age in North America. [Primarily for teachers.]
- Books of references; Journal of Geology; American Geologist; The great Ice Age; (Geike's) The Ice Age in North America; (Wright) The Reports of the United States Geological Survey; The maps of the Mississippi River Commission, etc. Five hours per week. Lectures, recitations, map work. Third term.

## COLLEGES OF AGRICULTURE, ENGINEERING AND PHARMACY

1. **PHYSICAL GEOGRAPHY.** Lectures and recitations. Geikie's *Elementary Lessons*, supplemented by lectures, map drawing, and the study of geographical models. Five times a week. Third term.
2. **GENERAL GEOLOGY.** Cosmical Geology, Lithological Geology, Dynamical and Structural Geology. Books of reference used by students in preparation of their work: Green's *Physical Geology*, Geikie's *Text-book of Geology*, LeConte's *Elements of Geology*, Hunt's *Chemical Geology*, Daubree's *Geologic Experimentale*. Five times a week. First term.
- Paleontological Geology, Historical Geology. Books of reference used by students in preparation of their work: Nicholson's *Paleontology*, Zittel's *Paleontologie*, *Ohio Geological Reports*, *Paleontology of New York*. Five times a week. Second term.
3. **ECONOMIC GEOLOGY.** Lectures. Economic materials of stratified rocks, clays, limes, cements, coals, iron, ores, etc., phosphates, petroleum. Economic materials derived from veins and igneous rocks, gold, silver, copper, mercury. Gems. Books of reference used by students in preparation of their work: *Publications of U. S. Geological Survey*, *State Geological Surveys*, Phillips' *Ore Mining*. Five times a week. Third term.
4. **ELEMENTARY GEOLOGY.** Lectures and recitations. Text-book: LeConte's *Class Book of Geology*. Five times a week. Second term.

## GERMANIC LANGUAGES AND LITERATURES

[UNIVERSITY HALL, Rooms 32 and 33]

*Professor Eggers, Associate Professor Mesloh*

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

*First Semester*

51. **ELEMENTARY GERMAN.** Four times a week.
53. **SCIENCE READING.** Twice a week.

- 55. **GERMAN LITERATURE.** Lectures upon outline of German Literature. Reading of Selections. Four times a week.
- 57. **THE GERMAN DRAMA.** Lectures and reading of Selections. Three times a week.
- 59. **FAUST I.** Twice a week. (Can be taken only by those who propose to take 60.)
- 61. **MIDDLE HIGH GERMAN.** Mediæval Lyrics. Twice a week.
- 63. **DEUTSCHE CULTURGESCHICHTE.** Lectures in German. Once a week.
- 65. **COLLOQUIAL EXERCISES.** For advanced students. Twice a week.
- 67. **GOTHIC.** Wright's *Primer*. The relation between Gothic and allied languages will be considered. Twice a week.
- 59. **OLD NURSE.** Lectures on Grammar and reading of Sagas.

The last two courses will alternate.

- 71. **SANSKRIT.** Perry's *Primer*. Lectures introductory to the study of Indo-Germanic philology.

*Second Semester*

- 52. Continuation of Course 51. Four times a week.
- 54. Continuation of Course 53. Twice a week. Course 53 and 54 must have been preceded by Courses 51 and 52.
- 56. **GERMAN LYRICS.** Lectures and reading of Selections. Three times a week. Courses 55 and 56 must have been preceded by Courses 51 and 52.
- 58. **THE GERMAN PROSE.** Lectures and reading of Selections. Three times a week. 57 and 58 must have been preceded by 51, 52, 55 and 56.
- 60. **FAUST II.** Twice a week.
- 62. **MEDIÆVAL EPICS.** Twice a week.
- 64. **DEUTSCHER AUFSATZ.** Once a week.  
Courses 59, 60, 61, 62, 63 and 64 can be taken only with the approval of Professor Eggers; and must have been preceded by Courses 51, 52, 55 and 56, or their equivalents.
- 66. **COLLOQUIAL EXERCISES.** For advanced students. Twice a week.
- 68. **OLD HIGH GERMAN.** Lectures on Grammar and Literature. Reading of Selections. Twice a week.
- 70. **COMPARATIVE GRAMMAR.** Lectures. Twice a week.  
The last two courses will alternate.
- 72. Continuation of Course 71.

COLLEGE OF AGRICULTURE, ENGINEERING AND PHARMACY

- 1. **ELEMENTARY.** Four times a week, through the year.
- 2. **SCIENCE READING.** Twice a week, through the year.
- 4. **GERMAN LITERATURE.** Four times a week, through the year.



## GREEK LANGUAGE AND LITERATURE

[UNIVERSITY HALL, Room 37]

*Professor Smith, Associate Professor Hodgman*

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

**ELEMENTARY GREEK.** White's *First Greek Book* and one or two books of Xenophon's *Anabasis*. This course is designed to meet, partially, the wants of those who are deficient in the Greek required for admission. It cannot receive University credit. Five times a week, through the year.

*First Semester*

- 51. **XENOPHON'S** *Hellenica*. Greek Prose Composition. Four times a week.
- 53. **LYSIAS** — Select Orations (Morgan). Attic Antiquities. Four times a week.
- 57. **HOMER** — *Iliad* I-VI. Lectures on Epic Poetry. Three times a week.
- 59. **LECTURES ON HISTORY OF ANCIENT ART.** Twice a week.
- 61. **THE ATTIC DRAMA.** Lectures, collateral readings, and quiz. Twice a week.

*Second Semester*

- 52. **HERODOTUS** — Book VII, Myers' *History of Greece*. Four times a week.
- 54. **HOMER** — *Iliad*. Four times a week.
- 58. **SOPHOCLES' Oedipus Rex.** Lectures on Attic Drama. Three times a week.
- 60. Continuation of Course 59.
- 62. **THE ATTIC DRAMA.** Rapid reading of two or three plays. Twice a week.  
Must be preceded by 61.

COLLEGE OF ENGINEERING

- 1. **LECTURES ON HISTORY OF ANCIENT ART.** Twice a week, through the year.  
*Not given in 1900-'01.*

## HISTORY

AMERICAN HISTORY

[UNIVERSITY HALL, Rooms 27 and 18]

*Professor Knight, Dr. J. B. Sanborn*

EUROPEAN HISTORY

[UNIVERSITY HALL, Room 7]

*Associate Professor Siebert*

Course 55 (or 56) must precede all other courses in American History, and those intending to take advanced courses in American History should take Courses 53 and 54 (English History) as early as possible in their course.

Courses 51 and 52, in the order named, must precede all other courses in European History, except Courses 53 and 54.

*First Semester*

51. **GENERAL HISTORY OF EUROPE TO THE CLOSE OF THE MIDDLE AGES.** Lectures, text-book and collateral readings. Adams, *Civilization during the Middle Ages*. Three times a week. Two sections.
53. **POLITICAL AND CONSTITUTIONAL HISTORY OF ENGLAND TO THE ACCESSION OF THE STEWARTS.** Lectures, text-book and assigned readings. Gardiner's *Student's History of England*. Three times a week.
55. **POLITICAL HISTORY OF THE UNITED STATES.** Lectures, text-books and prescribed readings. Hart's *Formation of the Union*; Wilson's *Division and Reunion*. Four times a week. This course is repeated in the Second Semester (as Course 56). Of students who are required to take this subject, those whose names begin with the letters from A to K will take it in the First Semester; others will take it in the Second Semester (as Course 56). Two sections.
57. **HISTORY OF EUROPE FROM 1789 TO 1815.** The French Revolution. Lectures, recitations and collateral reading. Stephen's *Europe, 1789-1815*. Three times a week.
59. **ROMAN HISTORY AND INSTITUTIONS.** Lectures, text-book, collateral reading and special reports. Pelham, *History of Rome*. Twice a week.  
*Given biennially. Not offered in 1899-1900.*
61. **PRO-SEMINARY FOR RESEARCH WORK IN AMERICAN HISTORY AND POLITICAL SCIENCE.**  
Two hours a week (at one meeting.)  
All students who elect their Major Study in the department of American History and Political Science must take this course in the fourth year. Open, as elective, to other students, graduate and advanced under-graduate, on permission of the instructor.
63. **AMERICAN COLONIAL HISTORY.** Lectures and quizzes upon lectures and assigned reading. Three times a week.
65. **CONSTITUTIONAL AND POLITICAL HISTORY OF THE UNITED STATES. 1850-1876.** Secession, Civil War and Reconstruction. Lectures and assigned readings. Three times a week.  
*Given biennially. Not offered in 1899-1900.*
67. **HISTORY OF EUROPEAN COLONIES.** A study of the colonial development of Portugal, Spain, England, the Netherlands, France and Germany during the fifteenth, sixteenth and seventeenth centuries. Lectures, assigned reading and special reports. Twice a week.

*Second Semester*

52. **GENERAL HISTORY OF EUROPE FROM THE CLOSE OF THE MIDDLE AGES TO THE FRENCH REVOLUTION.** Lectures, text-book and collateral reading. Duruy's *Modern History*. Three times a week. Two sections.
54. **POLITICAL AND CONSTITUTIONAL HISTORY OF ENGLAND FROM THE ACCESSION OF THE STUARTS TO THE PRESENT TIME.** Lectures, text-book and assigned readings. Gardiner's *Student's History of England*. Three times a week.

56. **POLITICAL HISTORY OF THE UNITED STATES.** Lectures, text-books and prescribed reading. Hart's *Formation of the Union*; Wilson's *Division and Reunion*. Four times a week. [This is a repetition of Course 55 and will be taken as the Second Semester by those students (of whom it is required) whose names begin with letters from L to Z.] Two sections.
58. **HISTORY OF EUROPE SINCE 1815.** Lectures, text-book and assigned reading. Fyffe's *Modern Europe*. Three times a week.
60. **HISTORY OF THE PERIOD OF THE PROTESTANT REFORMATION.** Lectures, text-books, collateral reading and special reports. Hausser's *Era of the Reformation*. Twice a week.  
*Given biennially. Not offered in 1899-1900.*
62. **PRO-SEMINARY FOR RESEARCH WORK IN AMERICAN HISTORY AND POLITICAL SCIENCE.** Two hours a week (at one meeting.)  
This is a continuation of Course 61, and is open only to those who have had Course 61. All students who elect their Major Study in the department of American History and Political Science must take this course in the fourth year. Open, as elective to other students, graduate and advanced undergraduate, on permission of the instructor.
64. **CONSTITUTIONAL AND POLITICAL HISTORY OF THE UNITED STATES.** The Formative Period, 1776-1815. An advanced course. Lectures and assigned readings and investigations. Three times a week.
68. **AMERICAN DIPLOMATIC HISTORY.** History of the foreign relations, policy, and treaties of the United States. Lectures and special investigations. Three times a week.  
*Given biennially. Not offered in 1899-1900.*
70. **HISTORY OF EUROPEAN COLONIES.** History of colonization by the important states of Europe during the eighteenth and nineteenth centuries. Lectures, assigned reading and special reports. Twice a week.  
Courses 5 and 6 in History in the College of Agriculture and Domestic Science are the same as Courses 55 and 56 in History described above.

## HORTICULTURE

[HORTICULTURAL HALL]

*Professor Lazenby, Mr. Cunningham*

1. **ELEMENTS OF HORTICULTURE.** Lectures and practice in laboratory, greenhouse, gardens, orchard, ornamental grounds and forest. A study of special garden crops, preparation of soil, drainage and irrigation, fertilizers, tools and implements, buildings and weeds.  
Propagation, multiplication, germination, transplanting, budding, grafting and pollinating.  
Greenhouse construction and management; crops of the vegetable forcing-house.
5. **POMOLOGY AND VITICULTURE.** Four times a week. First term.
6. **WINTER GARDENING AND THE NURSERY.** Four times a week. Second term.
7. **SMALL FRUIT CULTURE.** Including the theory and practice of spraying plants. Four times a week. Third term.
8. **ELEMENTS OF FLORICULTURE.** History and description of flowering plants. Twice a week. First term.

9. **COMMERCIAL FLORICULTURE.** Twice a week. Second term.
10. **AMATEUR OR HOME FLOWER GARDENING.** Management of house plants, ferneries, warden cases, climbing vines and flowering bulbs. Twice a week. Third term.
11. **ABORICULTURE.** Lectures and field work. A study of native trees and shrubs; their uses for shelter, shade and ornament; method of propagation, culture. Twice a week. First term.
12. **FORESTRY.** Lectures and recitations. A study of the influence of forests upon soils, crops and climate; value of trees for timber; how to improve existing woodland; establishment and management of plantations of forest trees; forestry in Europe. Twice a week. Second term.
13. **LANDSCAPE GARDENING.** Lectures and practice. The principles of æsthetics as applied to natural scenery; the adornment of home and public grounds, including landscape engineering, landscape architecture and landscape horticulture. Twice a week. Third term.

## INDUSTRIAL ARTS AND SHOPWORK

[HAYES HALL, Rooms 9, 12, 17, 18, 5 and 6]

### INDUSTRIAL ARTS

*Professor Sanborn, Mr. Knight, Mr. ———, Mr. ———*

1. **TOOLS. MACHINES.** Lectures and recitations on hand and machine tools and the principles of mechanism and mechanics underlying their design, construction and operation. Three times a week.
2. **DESIGNING.** Problems in drawing and design to accompany Course 1. Three drawing periods a week.
3. **SHOP EQUIPMENT, APPLIANCES AND MANAGEMENT.** A continuation of Course 1. Lectures and recitations on the strength and durability of the materials used in construction: shop and factory buildings and their construction; power, power transmission and prime movers; automatic machines and other special devices for turning out cheap and accurate work; methods of compensation and shop accounts and management. Three times a week.
4. **ADVANCED DESIGNING.** Problems in the design of buildings and the arrangement of machinery, line-shafting, etc., for manufacturing plants; to accompany Course 3. Three drawing periods a week.
5. **WORKSHOP AND APPLIANCES.** Lectures and problems on the construction of shop buildings and the arrangement of machinery; power required and the means of transmission; friction in line-shafting and the efficacy of machinery; automatic machines and special shop appliances. Three times a week.
6. **MACHINE DESIGN.** Application of the principles of mechanics and strength of materials to the problems of machine designing. Five times (ten hours' practice) a week.



## SHOPWORK

1. **CARPENTRY AND PATTERN MAKING.** Exercises and practice in carpentry, wood-turning and pattern making, including sawing, planing, mortising, splicing, framing and other work involving the use of the ordinary carpenter tools; center and chuck turning; the making of finished patterns; and enough elementary moulding to illustrate draft, parting, cores, etc.
2. **FORGING.** Exercises and practice in iron and steel forging, including such operations as drawing, bending, forming, upsetting, welding and the making and tempering of punches, drills, chisels, lathe tools and springs.
3. **FOUNDRY WORK.** Exercises and practice in tempering sand and preparing moulds of machine parts in the sand, core-making, melting iron and brass, and the pouring of castings.
4. **CHIPPING AND FILING.** Exercises and practice in vise work, including chipping in cast and wrought iron; surface filing, squaring, fitting, finishing, and the scraping of surface plates.
7. **CARPENTRY AND PATTERN MAKING.** Similar to Shopwork 1.
8. **CARPENTRY: CABINET WORK.** Exercises and practice in cabinet making including panelling, mitre and dovetail joints, etc.; use of power tools.
9. **ADVANCED PATTERN MAKING.** Continuation of pattern work of Shopwork 7.
10. **CARPENTRY: BUILDING.** Advanced work in carpentry including use of two foot steel square in laying out of rafters, roof trusses, joists, etc.; stair building; doors, window frames, etc.
11. **FORGING.** Similar to Shopwork 2.
12. **ADVANCED FORGING.** Tool making, tempering of taps, dies, cutters, etc.; annealing; case hardening; ornamental iron work, etc.; visits to shops.
13. **MACHINE WORK.** Exercise and practice in hand-turning in iron and brass on speed lathes; and straight and taper turning, boring, fitting, chucking, thread-cutting, etc., on engine lathes.
14. **MACHINE WORK.** Exercises and practice on the lathe, planer, shaper, drill press and milling machine, with use of small tools as drills, taps, dies, reamers, counterbores, etc.; construction of parts of actual machines.
15. **ADVANCED MACHINE WORK.** Exercises and practice on turret lathe, universal, surface and tool grinding machines, gear cutting, etc.
16. **ADVANCED MACHINE WORK.** The construction and use of jigs and templates; the accurate laying out of work; the duplication of parts, the production of work rapidly and economically, etc.
17. **ADVANCED MACHINE WORK.** The making and use of special tools and fixtures, standard plugs and collars, standard caliper and limit gauges; error limits in modern machine construction; methods of testing the accuracy of machine tools; etc.

## SHOPWORK REQUIRED

Number	Credit	Year	Term	Courses in	Number	Credit	Year	Term	Courses in
1	3	1	2	Ag.: Hort.: Ag. (short).	11	3	2	1	M. E.
2	3	2	2	Ag.: Hort.	12	3	2	2	Cer.: E. M.
3	2	2	1	M. E.: I. A. (short).	13	3	3	2	Chem.: I. A.
	3	2	1	I. A.	14	3	3	3	Cer. (short): I. A. (short).
4	2	2	1	E. E.	15	3	4	3	Min. (short).
	3	3	1	I. A.	16	3	4	2	I. A.
	3	2	1	I. A. (short).	17	3	4	3	E. E.
	3	2	2	M. E.					I. A. (short).
	2	1	3	Cer. (short).					M. E.
	2	2	3	E. M.: Cer.					
7	3	1	1	Arch.: I. A.: I. A. (short).					
	3	2	1	Chem.					
	2	2	1	Cer.: E. M.					
	4	1	3	E. E.: M. E.					
8	3	1	2	Arch.: I. A.: I. A. (short).					
9	3	1	3	I. A.					
10	3	1	3	Arch.					
11	2	2	1	E. E.					

## LATIN

[UNIVERSITY HALL, Rooms 29, 28 and 39]

Professor Derby, Associate Professor Hodgman

## COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE\*

Courses 51, 52, 53, and 54 in the order named must precede the Elective Courses 55, 56, 57, 58, 61, 62, 63, 64, 65, 66.

## FIRST SEMESTER

51. **LIVY — BOOKS 1 AND 2; CICERO** — *Cato Major* or *Laelius*. Four times a week.
53. **HORACE**—*Odes Satires* and *Epistles*; **TACITUS**, *Agricola*. Four times a week.
55. **ROMAN HISTORIANS**—**SALLUST** *Bellum Jugurthinum*; **TACITUS**,—*Annales*; **SUE-TONIUS**. Three times a week.
57. **ROMAN PHILOSOPHY**. Three times a week. (*Not offered in 1899-1900*).
59. **PHARMACEUTICAL LATIN**. Five times a week.
61. **LINGUISTICS AND INSCRIPTIONS**. Two times a week. (*Not offered in 1899-1900*).
63. **TEACHERS' COURSE—PROSE COMPOSITION**. Two times a week.
- 63a. Supplementary to Course 63. May be taken only by permission of instructor. Once a week.
65. **ROMAN RHETORIC AND ORATORY**. Three times a week. (*Not offered in 1899-1900*).
67. **GREEK AND ROMAN ANTIQUITIES**. Lectures, illustrated. Two times a week.

## SECOND SEMESTER

52. **EARLY LATIN COMEDY — PLAUTUS AND TERENCE.** Four times a week.
54. **PLINY'S** *Letters*; **JUVENAL** *Satires*. Four times a week.
56. **ELEGIAC POETS — CATULLUS, TIBULLUS, PROPERTIUS.** Three times a week.
58. **OVID**, *Ramsay's Selections*; **LUCAN. BOOK I.** Three times a week.
60. **PHARMACEUTICAL LATIN** — Continuation of Course 59. Five times a week.
62. Continuation of Course 61. Two times a week.
64. Continuation of Course 63. Two times a week.
- 64a. Continuation of Course 63a. Once a week.
66. **LATER LATIN WRITERS.** Three times a week. (Not offered in 1899-1900).
68. **GREEK AND ROMAN ANTIQUITIES.** Lectures, illustrated. Two times a week.

## COLLEGE OF PHARMACY

1. **PHARMACEUTICAL.** Five times a week. First, second and third terms.

## LAW

[ORTON HALL, Room 7 and Basement Room]

## FIRST YEAR

## FIRST SEMESTER

Elementary Law (Robinson, Walker and Blackstone).

## SECOND SEMESTER

Agency (Mechem); Contracts (Bishop); Criminal Law (Hawley); Sales (Tiedeman); Torts (Cooley).

## SECOND YEAR

## FIRST SEMESTER

Bailments (Hale); Commercial Law (Tiedeman); Evidence (Underhill or Greenleaf); Pleading (Phillips).

## SECOND SEMESTER

Construction of Contracts (Jones); Partnership (Parsons); Real Property (Tiedeman); Wills (Schouler).

## THIRD YEAR

## FIRST SEMESTER

Constitutional Law (Black); Private Corporations (Taylor); Municipal Corporations (Tiedeman); Equity Jurisprudence (Fetter).

## SECOND SEMESTER

Ethics (Sharswood); Insurance (Richards); Negligence of Municipal Corporations (Jones); Suretyship (Baylies).

## MATHEMATICS

[UNIVERSITY HALL, Rooms 39, 41, 43 and 45]

*Professor Bohannon, Associate Professor McCoard, Assistant Professor Arnold,  
Assistant Professor Swartzel, Mr. Rasor, Miss Ball*

## A. TERM COURSES

1. **ELEMENTARY ALGEBRA.** *Venable.* Five times a week. First term. (Short Course in Agriculture).
3. **PLANE GEOMETRY.** *Venable.* Five times a week. First or second terms.
- 3a. **PLANE GEOMETRY.** *Venable.* Five times a week. Second term. (Short Courses in Agriculture and Clay-working.)
13. **SOLID GEOMETRY.** *Venable.* Five times a week. Second term.
14. **PLANE TRIGONOMETRY.** *Loney.* Five times a week. First or third terms.
15. **ANALYTICAL AND SPHERICAL TRIGONOMETRY.** *Loney,* with notes on Spherical Trigonometry. Twice a week. Second term.
16. **COLLEGE ALGEBRA.** *Taylor.* Three times a week. Second term.
17. **PLANE ANALYTICS.** *Loney.* Five times a week. Third term.
18. **ANALYTICS AND DIFFERENTIAL CALCULUS.** *Loney, Venable, Edwards.* Five times a week. First term.
19. **DIFFERENTIAL CALCULUS.** *Edwards.* Five times a week. Second term.
20. **INTEGRAL CALCULUS.** *Edwards.* Five times a week. Third term.
11. **DIFFERENTIAL EQUATIONS.** *Edwards.* Once a week. First term.
8. **LEAST SQUARES.** *Merriman.* Twice a week. First term.

## B. SEMESTER COURSES

## FIRST SEMESTER

55. **PLANE TRIGONOMETRY** (*Loney*) and 57, **ALGEBRA** (*Taylor*). Five times a week.
59. **ANALYTICS** (*Loney, Venable*) and 61, **DIFFERENTIAL CALCULUS** (*Edwards*). Five times a week.
63. **ADVANCED MATHEMATICS.** Topics will be changed from year to year to meet the wishes of the students. Selections may be made from the following courses: (a) Advanced Calculus (*Picard, Houel*); (b) Differential Equations (*Johnson, Murray, Forsythe, Craig*); (c) Higher Plane Curves (*Salmon*); (d) Advanced Analytical Geometry (*Casey, Salmon*); (e) Analytical Geometry of Three Dimensions (*Chas. Smith, Frost, Salmon*); (f) Theory of Equations (*Burnside and Panton*); (g) Modern Higher Algebra (*Chrystal, Salmon, Serret, Cole's Netto*); (h) Modern Geometry (*Cremona, Reye, Steiner, Von Staudt, Chasles*); (i) Determinants (*Muir*); (j) Elliptic Functions (*Weber, Halphen, Durege, Hermite, Greenhill, Briot and Bouquet*); (k) General Theory of Functions (*Forsythe, Harkness and Morley, Tannery, Weierstrass, Durege, Thoame, Biermann*); (l) Potential Functions (*Clausius, Riemann, Dirichlet, Peirce*); (m) Mathematical Theory of Electricity (*Mascart and Foubert*); (n) Higher Geodesy (*Clarke, Helmert, Jordan*); (o) Spherical Harmonics (*Byerly, Ferrers, Heine*); (p) Mathematical Optics; (q) History of Mathematics. Credit, one to ten hours.



65. **PROBLEMS ON ALL PAST WORK.** Once a week.  
 67. **ALGEBRA, ANALYTICS, CALCULUS.** Three times a week.

## SECOND SEMESTER

56. **ALGEBRA** (*Taylor*), and 58, **PLANE ANALYTICS** (*Loney*). Five times a week.  
 60. **CALCULUS AND 62, DIFFERENTIAL EQUATIONS.** (*Edwards*.) Five times a week.  
 64. Continuation of Course 63. Credit, one to ten hours.  
 66. Continuation of Course 65. Once a week.  
 68. **TRIGONOMETRY, ANALYTICS, CALCULUS.** Three times a week.

## MECHANICAL ENGINEERING

[HAYES HALL, Room 12; MECHANICAL HALL, Second Floor]

*Professor Magruder, Associate Professor Hitchcock, Mr. Hale*

3. **MECHANISM.** Lectures and recitations on the principles of mechanism and mechanical movements. Five times a week. Second term.  
 The accurate laying out of movements, embodying the principles of mechanism. Twice a week. Third term.
6. **ANALYTICAL MECHANICS.** Five times a week. First and second terms.
7. **STRENGTH OF MATERIALS.** Recitations and lectures on the elastic and ultimate resistance of the materials of engineering to stress and their use in structures and machines. Lectures on elementary hydraulics and the flow of water through orifices and pipes over weirs, and in streams, and on measuring the same. Five times a week. Third term.
8. **THERMODYNAMICS.** Lectures and recitations on the transformation of heat and mechanical energies. Ideal indicator diagrams of steam, air and gas engines; the flow of gases through pipes and orifices. Five times a week. Third term.
9. **PRIME MOVERS.** Lectures and recitations on steam and gas engines, turbine water wheels, valve movements and governors; their construction, operation, efficiency and economy. Five times a week. First term.
10. **STEAM BOILERS.** Lectures and recitations on steam boilers, furnaces, automatic stokers, gas producers and boiler appliances; their construction, operation, efficiency and economy. Five times a week. Second term.
12. **EXPERIMENTAL ENGINEERING LABORATORY.** Twice a week. First term. Third year.
13. The same. Four times a week. First term. Fourth year.
14. The same. Four times a week. Second term. Fourth year.
15. The same. Three times a week. Third term. Fourth year.
16. The same. Four times a week. Third term. Third year, Electrical Engineering.
17. The same. Three times a week. Second term. Fourth year, Civil Engineering.
- Courses 12, 13, 14, 15, 16, 17, 24 and 25, in the Experimental Engineering Laboratory are arranged to meet the needs of the different students in

obtaining experimental practice in the use and calibration of accurate measuring instruments; in testing illuminating and lubricating oils for friction, endurance, and the like; in the calibration and adjustment of gauges and springs; in testing the strength and elasticity of the materials of construction in tension, compression, torsion, flexure, shear, and impact; in the flow of liquids and gases; in the use of the steam separators, injectors, steam pipe coverings; belt, rope and chain gearing; in setting valves and eccentrics; in making efficiency tests of simple and compound, condensing and non-condensing steam engines; of pulsometer steam and centrifugal pumps; of hydraulic rams and of impulse and turbine water wheels.

18. **MACHINE DESIGN.** Recitations on Unwin's *Machine Design*, with lectures on American Practice. Five times a week. First and second terms.
20. **HYDRAULIC MACHINERY.** Recitations and lectures on pumping machinery. Twice a week. Third term.
21. **THESIS WORK.** Five times a week. Third term.
22. **TIMBER AND MASONRY.** Lectures on the construction of foundations and structures in timber and masonry. Five times a week, the last three fifths of second term.
23. **MATERIALS OF CONSTRUCTION.** Lectures on the materials used in architecture and building construction, and laboratory exercises on their properties. Five times a week. First term.
24. **EXPERIMENTAL ENGINEERING LABORATORY.** Three times a week. First and second terms. Elective for third year and fourth year engineers.
25. **EXPERIMENTAL ENGINEERING LABORATORY.** Three times a week. Third term. Fourth year, Civil Engineering.
26. **STEAM MACHINERY.** Once a week. Course in Dairying.

## METALLURGY AND MINERALOGY

[CHEMICAL HALL, Rooms 4 and 3]

*Professor N. W. Lord, Mr. Somermeir*

### COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

52. **MINERALOGY.** Lectures, with frequent quizzes on notes and with study of specimens in the collection of minerals. A short introductory course is given on crystallography, illustrated by wooden models. Text-book: Dana's *Manual Mineralogy and Lithology*. Last nine weeks of Second semester.

### COLLEGE OF ENGINEERING

2. **MINERALOGY.** Lectures. Similar to Course 52 in College of Arts, Philosophy and Science, but more practical, and arranged so as to be preparatory to Determinative Mineralogy (Course 3). Three times a week. Third term.
3. **DETERMINATIVE MINERALOGY.** Laboratory course in practical determination of minerals by physical and chemical tests. Each student is furnished with a set of apparatus, and works under an instructor's inspection. Brush's *Determinative Mineralogy* is used as a manual. Five times a week. Third term.

4. **METALLURGY.** A course of lectures upon fuel and its uses, iron and steel, copper, lead, gold and silver, their properties, tests, ores and details of the modes of reduction. The lectures are supplemented by a careful study of references to standard works and journals. Five times a week. First and second terms.
5. **METALLURGICAL LABORATORY.** Lectures and laboratory work. Laboratory practice in the analysis of iron and steel, fuels and slags, and the assays of lead, copper and zinc ores by wet methods, using approved methods as practiced in technical laboratories of metallurgical works. Course 5 must be preceded by Agricultural Chemistry, Courses 1, 8, 9; or by General Chemistry, Courses 7 and 12. Five laboratory periods a week. Three terms.
6. **ASSAYING.** Laboratory work. Practical work in the assaying of gold, silver and lead ores, by furnace methods. Oral instruction, with reference to standard books on assaying. Five laboratory periods a week. Second term.
7. **METALLURGICAL CONSTRUCTION.** Practice in the designing of furnaces and other metallurgical machinery, including detail drawings and estimates. Three times a week. First term. (Professors Lord and Ray.)
8. **ORE DRESSING AND COAL WASHING.** Lectures. Instruction in the methods of concentrating and enriching ores and fuels by mechanical means. Lectures with reference to Rittinger's *Aufbereitung*; Callon's *Course d' Exploration des Mines*; Kunhardt's *Ore Dressing*, and various papers in technical journals. Twice a week. First term.
9. **MINERAL CHEMISTRY.** Lectures and laboratory practice. Lectures upon fire damp, mine explosions, explosives, boiler, waters, poisonous gases, iron ores; iron and steel, their properties and modes of manufacture; coal and coke. Five hours a week. Third term.

## MILITARY SCIENCE AND TACTICS

[ARMORY]

*Lieutenant Martin*

1. **MILITARY DRILL.** Three times a week through the year.
2. **TACTICS.** Lectures and recitations. Twice a week. Second term.
3. **ART OF WAR.** Lectures and recitations. Twice a week. Second term.

## MINE ENGINEERING

[CHEMICAL HALL, Room 26]

*Associate Professor Ray*

- ELEMENTARY ALGEBRA.** (Mathematics 2.) Wentworth. Five times a week. Three terms.
1. **MINE SURVEYING.** Lectures and field practice. This is similar to Course 4, but more elementary. The same text is used. The students have more practice in the drawing-room. Five times a week. First term.
2. **VENTILATION AND HAULAGE.** Lectures illustrated by experiments and maps of mines and models when possible, tests by safety lamps and anemometers, and solution of air distribution in coal mines. Five times a week. Second term.

3. **MINE OPERATING.** A course of lectures and practical instruction in mine book-keeping and accounts, cost of working, etc., particularly adapted to Ohio coal mining. Five times a week. Third term.
4. **MINE SURVEYING.** Field practice in the use of instruments for surface and underground surveys. Full notes are taken, and maps and plans made in the drawing-room. Davie's *Surveying*, by Van Amringe, is used as a text-book. Five times a week. First term.
5. **MINE ENGINEERING.** Lectures. Mine operating, mining machinery, ventilation, shaft-sinking, working out deposits, etc. Constant reference is required to the standard works and to the leading technical journals, with practice in designing mine plants, draughting and estimates. Five times a week through the year.
6. **PLANS AND SPECIFICATIONS.** Five times a week. Third term. [Professors Lord and Ray.]

## PHARMACY

[CHEMICAL HALL, Rooms 13 and 12]

*Professor Kauffman, Assistant Professor Dye*

6. **PHARMACY.** General pharmaceutical processes. Lectures three times a week. First term.
7. **PHARMACY.** United States Pharmacopeia official preparations. Lectures twice a week. Laboratory practice daily. Second term.
8. **DISPENSATIONS.** Official preparations. Lectures twice a week. Laboratory practice daily. Third term.
9. **PHARMACEUTICAL CHEMISTRY.** Unofficial preparations. The National Formulary. Lectures twice a week. Laboratory practice daily. First term.
10. **EXTEMPORANEOUS PHARMACY.** Prescription practice. Lectures once a week. Laboratory practice three times a week. Second term.
11. **GENERAL PRACTICE.** Lectures twice a week. Dispensing practice daily. Prescription practice daily. Third term.
12. **MATERIA MEDICA.** Official drugs and classification. Three times a week. First term.
13. **MATERIA MEDICA.** Official and unofficial drugs. Three times a week. Second term.
14. **MATERIA MEDICA AND THERAPEUTICS.** Synthetic Products. Poisons and Antidotes. Three times a week. Third term.
15. **PHARMACEUTICAL ASSAYING.** Three times a week. First term.
16. **METHODS OF MANUFACTURE.** Three times a week. Second and third terms.
17. **GENERAL PHARMACY.** Two lectures, three laboratory periods a week. Through the year.
18. **LABORATORY.** Special work for veterinary students. Five times a week. Third term.



## COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

## (Course Preparatory to Medicine)

*First Semester*

51. **PHARMACY.** General pharmaceutical processes. Lectures three times a week.

*Second Semester*

52. Continuation of Course 51, with Laboratory practice.

## PHILOSOPHY

[UNIVERSITY HALL, Rooms 33, 50, 49 and 51]

*Professor Scott, Mr. Wissler*

*First Semester*

51. **PSYCHOLOGY. LOGIC BEGUN.** Four times a week. Required in the Courses for B. A., B. Ph. (L.), and B. Ph. (M. L.)
53. **PSYCHOLOGY.** Three times a week. Required in the Courses for B. Ph. (E.), B. Sc., for Law and Journalism, and for Medicine.
55. **ETHICS.** Three times a week. Required in Course for B. Ph. (E.)
57. **HISTORY OF ANCIENT AND MEDIAEVAL PHILOSOPHY.** Three times a week. Elective after Courses 51 and 52.
59. **INTRODUCTION TO PHILOSOPHY.** Twice a week. Elective after Courses 51, 52, 56 and 57 or after Courses 53, 54, 55 and 56.
61. **PHYSIOLOGICAL AND EXPERIMENTAL PSYCHOLOGY.** Twice a week. Elective. This course begins with a general survey of the organic basis of personality, attention, etc., taking up in turn the sense organs and perception, motor processes and the personal equation.
63. **LEADING WORKS IN PHILOSOPHY.** Twice a week. Elective on the same conditions as Course 59.

*Second Semester*

52. **LOGIC COMPLETED AND ETHICS.** Four times a week. Follows Course 51.
54. **LOGIC.** Three times a week. Follows Course 53.
56. **HISTORY OF MODERN PHILOSOPHY.** Three times a week. Required after Course 55. Also elective after Courses 51 and 52.
60. **METAPHYSICS.** Twice a week. Elective after Courses 51, 52, 57 and 56 or after Courses 53, 54, 55 and 56.
62. **PHYSIOLOGICAL AND EXPERIMENTAL PSYCHOLOGY.** Twice a week. Elective. The work of this semester presupposes Course 61. Individual topics will be assigned and the student will be required to report upon the general literature of the subject as well as to make an experimental study of some of the controverted points.
64. **LEADING WORKS IN PHILOSOPHY.** Twice a week. Elective on the same conditions as Course 60.

## PHYSICS

[UNIVERSITY HALL, Rooms 10, 14, 23 and 24]

*Professor Thomas, Assistant Professor Boyd, Mr. Kester*

COLLEGES OF AGRICULTURE, ENGINEERING AND PHARMACY

1. **ELEMENTARY PHYSICS.** Recitations and experimental lectures. Five times a week. First and Second Terms. Text: Carhart & Chutes' "Elements of Physics." (Required in all Short Courses.)
2. **MECHANICS AND HEAT.** Electricity and Magnetism, Sound and Light. Lectures and recitations. Three times a week. Through the year.
3. **PHYSICS.** Extension of Course 2, with practice in solution of problems. Twice a week. Through the year.
4. **ELECTRICITY AND MAGNETISM.** Lectures and recitations. Three times a week. First term. (Third year, Electrical Engineering.)
5. **PHYSICAL LABORATORY.** Elementary manipulation. Length, mass and time measurements. Work in density, elasticity and heat. Three times a week. Second and third terms.
6. **PHYSICAL LABORATORY.** Theory and practice of magnetic and electrical measurement, including the testing and standardizing of instruments; conductivity of conductors; insulation, capacity and resistance of insulated conductors and cables; temperature co-efficients; commercial measuring and testing instruments; strength and distribution of magnetic fields, magnetic moments, permeability; work in light including optical constants; spectroscopy; photometry of gas, electric and other lights. Five times a week. First, second and third terms. (Third year, Electrical Engineering.)
7. **PHYSICAL LABORATORY.** Two to three times a week. Through the year. Course 7 must be preceded by Course 2.
9. **PHYSICAL LABORATORY.** A second year's work in the Physical Laboratory. Three times a week, with five hours' credit. Course 9 must be preceded by Course 7.  
The work in the Physical Laboratory begins with exercises in length, mass and time measurement, making use of scales, tapes and bars, micrometer screws, micrometer microscopes, the dividing engine, the cathetometer, the balance, chronometers, chronoscopes, etc. This course is intended to give the student facility in the use of instruments and knowledge of the theory of their construction and adjustment.  
The determination of various physical constants follows, with elementary exercises in heat, light, electricity and magnetism; after which the student takes up such advanced work as his taste and skill permit. The experimental work is accompanied by instruction in methods and in the discussion of results.
11. **MECHANICS, SOUND AND HEAT.** One lecture, two laboratory periods a week. Required in the Course in Pharmacy.

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

*First Semester*

51. **MECHANICS, HEAT, ETC.** Three times a week. Second year, Science Course. Elective in the First year of the Courses of Arts and Philosophy.

53. **MECHANICS, SOUND AND HEAT.** One lecture, two laboratory periods a week. Elective in the First year of the Courses of Arts and Philosophy. Required in the First year of the Course Preparatory to the Study of Medicine.
55. **LABORATORY.** Three to five times a week.
57. **LABORATORY.** Three to five times a week. Course 57 must be preceded by Course 55.

*Second Semester*

52. **ELECTRICITY, MAGNETISM, ETC.** Three times a week. Follows Course 51.
54. **ELECTRICITY, MAGNETISM, ETC.** One lecture, two laboratory periods a week. Follows Course 53.
56. **LABORATORY.** Continuation of Course 55.
58. **LABORATORY.** Continuation of Course 57.
60. **LABORATORY.** Two hours a week. First year of Course Preparatory to the Study of Medicine.

## PHYSIOLOGY

*(See Anatomy and Physiology)*

## POLITICAL ECONOMY

*(See Economics)*

## POLITICAL SCIENCE

[UNIVERSITY HALL, Room 27]

*Professor Knight**First Semester*

51. **INTERNATIONAL LAW.** Lectures and text-book. A study of public international law and of the important modern treaties. Lawrence's *Principles of International Law*. Twice a week. Open only to those who have had Courses 51, 52 and 55 (or 56) in History.
53. **POLITICAL INSTITUTIONS OF THE UNITED STATES.** Lectures and recitations. A study of the origin and nature of the political institutions of the United States, and an analysis of the form and powers of the government. Bryce's *American Commonwealth*; Burgess's *Political Science*. Three times a week. Open only to students who have had History 55 or 56.
55. **THE GOVERNMENT OF DEPENDENCIES.** A study of the political institutions of the leading colonial governments. Lectures, collateral readings and special reports. Twice a week.  
*Given biennially. Not offered in 1899-1900.*

*Second Semester*

52. **MUNICIPAL GOVERNMENT.** Lectures and collateral reading. A study of the development and status of modern municipalities, and a comparative study of recent American municipal charters. Twice a week.

51. **COMPARATIVE POLITICAL INSTITUTIONS OF EUROPE AND AMERICA.** Lectures, recitations and collateral readings. A comparative study of the political institutions and governmental forms and powers in the United States, England, Germany, France and Switzerland. Burgess's *Political Science and Constitutional Law*. Three times a week. Course 54 must be preceded by Course 53.
56. **HISTORY OF TREATIES AND MODERN DIPLOMACY.** Lectures on important treaties of modern times with special reference to their bearing upon international law. Accompanied by collateral reading and special reports. Twice a week. This course must be preceded by Course 51.

## RHETORIC AND ENGLISH LANGUAGE

[UNIVERSITY HALL, Rooms 42, 40 and 38]

*Professor Denney, Assistant Professor Graves, Assistant Professor Shurter,  
Assistant Professor McKnight, Mr. Parker*

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

*First Semester*

51. **ENGLISH COMPOSITION—WRITTEN AND ORAL.** *Three times a week.* Credit two and one-half hours. The course includes (a) two exercises weekly in the writing of short themes, the outlining and composition of essays and speeches, and the study of illustrative texts for structure and form, in connection with Scott and Denney's Paragraph Writing; (b) one practice hour weekly in oral composition, including exercises and drill in the essentials of good speaking and the delivery of at least one original speech and one essay by each member of the class. The practice hour is in charge of the instructor in Public Speaking.  
Required in all courses.
53. **ANALYSIS OF ENGLISH PROSE.** *Four times a week.* The course includes (a) two recitations weekly in the analysis of specimens of prose literature, selected to illustrate rhetorical principles—text books, Genung's Rhetorical Analysis and Lewes' Principles of Success in Literature; (b) one lecture weekly on the Principles of Style with prescribed readings and reports; (c) one exercise weekly in composition-practice, mainly in types of exposition. Course 53 must be preceded by 52.  
Required in the Modern Language and English Courses in Philosophy, and the Course in Commerce and Administration.
55. **RAPID WRITING.** *Once a week.* The preparation of articles for the Press with practical exercises in observation, reporting, abstracting, condensation and expansion, proof reading; and a study of newspaper forms.  
Required in the Course Preparatory to Law and to Journalism. Elective to students who have passed Course 53 or 54.
57. **BRIEF-MAKING AND ARGUMENTATION.** *Three times a week.* The course includes (a) the study of the principles of logical analysis, evidence, argumentation, persuasion and debating; practice in writing briefs of noted American and British speeches; the preparation of original briefs preliminary to a series of formal debates extending through the remainder of the course, one debate each week, by sections of the class, in rotation; (b) the instructor



in Public Speaking will meet the class one hour of the three each week, in the early part of the course, for general exercises and drill preparatory to debate, and after the debates begin, for conference and criticism and further drill. This course should be preceded or accompanied by Course 53 or 54.

59. **POETICS.** *Twice a week.* Gummere's Hand-book of Poetics for reference. Prescribed readings and reports, with exercises in verse-writing to illustrate the meters of English verse. This course must be preceded by Course 53 or 54.
61. **RHETORICAL THEORY.** *Two hours a week.* Special investigations, reports and discussions. An introduction to methods of research and use of material. Exclusively for undergraduates making their graduation theses in this department and for graduate students working in either of the English Departments.
63. **ADVANCED RHETORIC.** *Twice a week.* The subject matter of this course is the same as that of Course 3 described below. Course 63 is required of students in the Course Preparatory to Medicine, and is open to no others, except by special permission.
65. **THE STUDY OF A NOVEL FOR ITS DRAMATIC ELEMENTS** under the direction of the Professor of English Literature, followed by its recasting in the form of a play under the direction of the Professor of Rhetoric, and its presentation by the class under the direction of the instructor in Public Speaking. *Once a week.* Special permission necessary.
67. **TEACHERS' COURSE IN RHETORIC.** *Two hours a week.* Lectures, conferences and prescribed readings on the teaching of composition and rhetoric in the schools; class-room procedure; the place of the text-book; plans for courses and for lessons; the teacher's equipment; the essay problem; a review of the work of the English Conferences and of recent text-books; the relations between composition-teaching and the teaching of English Classics; the order of topics; the function of criticism. Course 67 should be preceded by Course 53 or 54, but this requirement is waived for those who are engaged in teaching.
69. **HISTORY OF THE ENGLISH LANGUAGE.** *Twice a week.* An elementary course complete in itself, but also introductory to courses in Old and Middle English. Lectures and text-book (Emerson's Briefer History) with illustrative readings.  
Required in the English Course in Philosophy. Elective to all other students in Arts and Philosophy Courses.
71. **OLD ENGLISH PROSE.** *Twice a week.* A reading course. Course 71 must be preceded or accompanied by Courses 69 and 70.  
Required in the English Course in Philosophy. Elective to all others who have passed or are taking Courses 69 and 70.
73. **OLD AND MIDDLE ENGLISH PHILOLOGY.** *Two hours a week.* Must be preceded by Courses 69 and 70.
75. **PUBLIC SPEAKING.** *Two hours a week.* Exercises based upon assigned topics, which the student has mastered, in the fields of history, politics, education, and current events. Speaking from topical outlines and extempore speaking. Course 75 must be preceded by Course 53 or 54.

*Second Semester*

52. **ENGLISH COMPOSITION—WRITTEN AND ORAL.** *Three times a week.* Credit two and one-half hours. Continuation of Course 51. Text-book; Cairns' *The Forms of Discourse*.  
Required in all courses.
54. **ANALYSIS OF ENGLISH PROSE.** *Four times a week.* Repetition of Course 53.  
Required in the Course in Arts, the Latin Course in Philosophy, the Course Preparatory to Law and to Journalism, and the Course in General Science.
56. **RAPID WRITING.** *Once a week.* Continuation of Course 55 and must be preceded by Course 55.  
Required in the Course Preparatory to Law and to Journalism. Elective to others who have passed Course 53 or 54, and 55.
58. **BRIEF-MAKING AND ARGUMENTATION.** *Three times a week.* Continuation of Course 57 and must be preceded by Course 57.
60. **SHORT STORIES.** *Twice a week.* Lectures and practice. Structure and plot analysis of selected narratives; study of plan, purpose, diction and the uses of description; practice in writing short stories; with individual and class criticism. Course 60 must be preceded by Course 53 or 54.
62. **PROBLEMS IN CRITICISM.** *Two hours a week.* Special investigations, reports and a thesis. Course 62 must be preceded by Course 61.
64. **ADVANCED RHETORIC.** *Twice a week.* A continuation of Course 63 and must be preceded by Course 63.
66. **THE STUDY OF A NOVEL FOR ITS DRAMATIC ELEMENTS,** under the direction of the Professor of English Literature, followed by its recasting in the form of a play under the direction of the Professor of Rhetoric, and its presentation by the class under the direction of the instructor in Public Speaking.  
*Once a week.* Continuation of Course 65 and must be preceded by Course 65.
68. **TEACHERS' COURSE IN ENGLISH LANGUAGE AND ENGLISH GRAMMAR.** *Two hours a week.* Lectures, conferences and prescribed readings on the teaching of English in the schools. Course 68 should be preceded by Course 53 or 54, but this requirement is waived for those engaged in teaching.
70. **DEVELOPMENT OF ENGLISH PROSE.** *Twice a week.* An elementary course complete in itself, but also introductory to courses in Old and Middle English. Course 70 furnishes a rapid survey of the history of idiom and of the practical resources of the language, for students whose courses do not require the thorough study of Old and Middle English. Lectures and Illustrative Readings.  
Required in the English Course in Philosophy. Elective to all other students in Arts and Philosophy Courses.
72. **OLD ENGLISH PROSE AND POETRY.** Continuation of 71 and must be preceded by 71. *Twice a week.*  
Required in the English Course in Philosophy. Elective to all others who have passed 69 and 70.
74. **OLD AND MIDDLE ENGLISH PHILOLOGY.** Continuation of 73 and must be preceded by 73. *Two hours a week.*
76. **PUBLIC SPEAKING.** Continuation of Course 75 and must be preceded by Course 75. *Two hours a week.*

## COLLEGES OF AGRICULTURE AND DOMESTIC SCIENCE, ENGINEERING AND PHARMACY

5. **ENGLISH COMPOSITION—WRITTEN AND ORAL.** Three terms. *Three times a week.* Credit two and one-half hours. For a description of Course 5 see Courses 51 and 52 above.  
Required in all four-year and three-year courses.
3. **ADVANCED RHETORIC.** Three terms. *Twice a week.* The course includes (a) *once a week*, prescribed readings in the literature of technology and science; and the analysis of specimens of this literature, selected to illustrate rhetorical principles; (b) *once a week*, reports, abstracts, memoranda, and notes of lectures and of articles in the technical journals; practice in drawing specifications and writing brief papers on technical and scientific subjects.  
Required in all four-year courses in the College of Engineering.
4. **ADVANCED COMPOSITION.** Three terms. *Twice a week.* Course 4 is intended for students desiring further practice in composition. Course 4 will not be given unless chosen by ten or more students. Voluntary in the courses in Civil, Mine, Mechanical and Electrical Engineering. Elective in the course in Industrial Arts, Chemistry, Pharmacy, Agriculture, Horticulture, Forestry, and Domestic Economy.

## ROMANCE LANGUAGES

[UNIVERSITY HALL, Rooms 35 and 34]

## I. FRENCH

*Professor Bowen, Assistant Professor Bruce*

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

*First Semester*

51. **ELEMENTARY FRENCH.** Four times a week. Grammar: Edgren's\* (Part I) or Joynes' Minimum, with written exercises. Reader: Super's (from Part II) or Whitney's (Parts I and II). In this course the study of the language is taken up from the beginning. Stress is laid at first upon the acquisition of a correct pronunciation, after which the entire energy of the student is directed toward the attainment of a full and accurate reading knowledge of the language. Grammar and composition are made to contribute to this end.
53. **SCIENCE READING.** Twice a week. A course introductory to the vocabulary of scientific literature, designed to familiarize the student with technical terms and style. Open to those who have completed Courses 51 and 52, or who have received credit for French as an entrance subject.
55. **MODERN FRENCH LITERATURE.** Four times a week. Contes and Novels: Fontaine's *Historiettes Modernes*, Tome II. Balzac, Eugénie Grandet. Prose composition: Edgren's French Grammar [Syntax]. Lectures supplement the work; private reading required; systematic attention given to syntax and idiom. Open to those who have completed Courses 51 and 52, or who have received credit for French as an entrance subject.
57. **FRENCH COMEDY.** Three times a week. Study of the growth of French Comedy, with work centering upon Molière [four plays], Regnard [Le Joueur] and Beaumarchais [Le Barbier de Séville]. Lectures and collateral reading. Open to those who have completed Courses 55 and 56.



59. **ADVANCED PROSE COMPOSITION.** Once a week. Practice in speaking and writing French. Intended for advanced students who desire special training on the practical side of the language. Open to those who have completed Courses 55 and 56.
61. **FRENCH TRAGEDY.** Three times a week. Racine and Voltaire. Lectures and readings, with assigned topics, reports and discussions. Must be preceded or accompanied by Course 57.
63. **FRENCH LITERATURE BEFORE THE SEVENTEENTH CENTURY.** Three times a week. Advanced work as in Course 61. Special study of *la Chanson de Roland*. Must be preceded or accompanied by Course 57. [Not offered in 1900-1901.]

*Second Semester*

52. **MODERN PROSE AND PLAYS.** Continuation of Course 51. Four times a week. Historical and narrative prose; one or more prose comedies. Sight reading is emphasized.
54. **SCIENCE READING.** Continuation of Course 53. Twice a week.
56. **MODERN FRENCH LITERATURE.** Continuation of Course 55. Four times a week. Lyric Poetry: Bowen's *Modern French Lyrics*. Drama: Comparative study of the classical and the romantic drama: Corneille, Horace; Hugo, *Hernani*.
58. **RECENT FRENCH WRITERS.** Three times a week. Bourget, Daudet, Rostand (*Cyrano de Bergerac*), Zola, and others. Open to those who have completed Courses 55 and 56.
60. **ADVANCED PROSE COMPOSITION.** Continuation of Course 59. Once a week.
62. **CHEAUTEAUBRIAND AND THE PRECURSORS OF THE ROMANTIC MOVEMENT.** Three times a week. Lectures and readings, with assigned topics, reports and discussions. Must be preceded by Course 57. Toward the close of the year lectures will be given on: Methods of teaching French and the teacher's equipment.
64. **THE DEVELOPMENT OF THE FRENCH NOVEL.** Three times a week. Advanced work, as in Course 62. Must be preceded by Course 57. [Not offered in 1900-1901.]

COLLEGES OF AGRICULTURE AND ENGINEERING

1. **ELEMENTARY FRENCH.** Four times a week throughout the year. Grammar and reader, modern prose and plays, as in Courses 51 and 52.
2. **MODERN FRENCH LITERATURE.** Four times a week throughout the year. The work is the same as in Courses 55 and 56. Open to those who have completed Course 1.
3. **SCIENCE READING.** Twice a week throughout the year. The work is the same as in Courses 53 and 54. Open to those who have completed Course 1 (or an equivalent).

II. ITALIAN

*Professor Bowen*

51. **GRAMMAR AND READINGS.** Two hours a week. First Semester. Grandgent's *Italian Grammar* and Bowen's *First Italian Readings*. Open to those who have completed Courses 51 and 52 (or an equivalent) in French.



2. **GOLDONI AND DANTE.** Continuation of Course 51. Two hours a week. Second Semester.

### III. SPANISH

*Professor Bowen*

51. **GRAMMAR AND READINGS.** Twice a week. First Semester. Edgren's Spanish Grammar and Matzke's First Spanish Readings. Open to those who have completed Courses 51 and 52 (or an equivalent) in French. [Given in alternate years; will not be offered in 1900-1901.]
52. **CALDERON AND CERVANTES.** Continuation of Course 51. Twice a week. Second Semester.

### SANSKRIT

(See Germanic Languages)

### SHOPWORK

(See Industrial Arts)

### SOCIOLOGY

(See Economics and Sociology)

### VETERINARY MEDICINE

[VETERINARY HOSPITAL AND TOWNSHEND HALL]

*Dr. White, Dr. Lavery, Dr. Fredericks, Mr. Brumley*

#### COLLEGES OF AGRICULTURE AND VETERINARY MEDICINE

11. **OSTEOLOGY.** Lectures illustrated with skeletons and anatomical preparations. Dissections. Five times a week. First term.
12. **MYOLOGY.** Splanchnology and Angiology. Practical dissections and demonstrations on cadavers. Five times a week. Second term.
13. **LECTURES ILLUSTRATED IN THE DISSECTING ROOM AND ON ANATOMICAL MODELS.** Five times a week. Third term. Books of reference and recommended for study: Chauvau's *Comparative Anatomy* (Fleming's translation); Strangeway's; McFaydean; Mueller and Leisering.
14. **LECTURES AND GENERAL PATHOLOGY.** Five times a week. First term.
15. **SPECIAL PATHOLOGY AND THERAPEUTICS OF SPORADIC DISEASES.** Non-infectious Internal Diseases. Five times a week. Second term.
16. **SPECIAL PATHOLOGY AND THERAPEUTICS OF NON-INFECTIOUS DISEASES OF THE HORSE, OX AND DOG.** Five times a week. Third term.
17. **DISEASES OF THE COW.** Three hours a week. Second term.
18. **SURGICAL DISEASES AND OPERATIONS.** Lectures; illustrated by practical demonstrations by drawings, on living animals in the clinic, and on cadavers in the dissecting-room. Five times a week. First, second and third terms. Books recommended: As text-book, Mueller's *Operative Veterinary Surgery* (Dollar's translation). Liantard's *Manual of Operative Veterinary Surgery*, Beyer.

19. **HORSE, CATTLE AND DOG CLINIC IN THE VETERINARY HOSPITAL.** Stationary and Ambulatory. The clinics are held at 10-11 A. M. (standard) and are free. Animals left in the Hospital are treated by the students of the junior and senior year, under the superintendence of the clinical professor.
20. **SPECIAL PATHOLOGY AND THERAPEUTICS OF INFECTIOUS AND CONTAGIOUS DISEASES.** Five times a week. First term.
21. **SPECIAL PATHOLOGY AND THERAPEUTICS OF INFECTIOUS AND CONTAGIOUS DISEASES.** Three times a week. Second term. Texts: Froehner-Freidberger, Williams, Robertson.
22. **GENERAL THERAPEUTICS.** Lectures. Texts: Ellenberger and Hoffmeister. Five times a week. Third term.
23. **OBSTETRICS.** Lectures and demonstrations. Anatomy and pelvic organs. Diseases before and after parturition. Obstetrical operations and manipulations. Books: Fleming's Franck's *Obstetrics*. Three times a week. First, second and third terms.
24. **GENERAL SURGERY.** Practical work, such as the more common operations which a regular practitioner would be called upon to perform. All this work is done by the student upon chloroformed live animals purchased for the purpose. Five times a week. First term.
25. **ANATOMICAL LABORATORY.** Practical work in Topographical Anatomy, as a review of Anatomy for senior students. Books: McFadyean, Schmaltz's plates.
26. **PRINCIPLES OF HORSE-SHOEING.** Lectures and demonstrations. Includes all the diseases of the foot due to bad paring, shoeing, etc. Books: Leisering, Fleming.
27. **MEAT INSPECTION.** Lectures on Inspection of Meat and Milk. Five times a week. Books: Walley, Ostertag.
28. **ANATOMY.** Five times a week. First term.
29. **GENERAL PATHOLOGY.** Five times a week. Second term.
30. **SPECIAL PATHOLOGY AND THERAPEUTICS OF INFECTIOUS AND CONTAGIOUS DISEASES.** Five times a week. Third term.
31. **CANINE DISEASES.** Three times a week. First term.
32. Continuation of Course 31.
33. **OPHTHALMOLOGY.** Twice a week. Third term.

## ZOOLOGY AND ENTOMOLOGY

[BIOLOGICAL HALL, Rooms 3, 4, 7, 8 and 9]

*Professor Osborn, Assistant Professor Hine, Mr. Landacre*

### COLLEGE OF AGRICULTURE

1. **INVERTEBRATE AND VERTEBRATE.** Three times a week. Invertebrate, first and second term; Vertebrate, third term. This course includes a general discussion of groups, dissection of types and an outline of classification.
3. **ECONOMIC ENTOMOLOGY.** Insects of Forest, Orchard and Garden. Five times a week. Third term.

4. **ECONOMIC ENTOMOLOGY.** Twice a week, through the year. This course must be preceded by Course I.
7. **SYSTEMATIC AND PRACTICAL ENTOMOLOGY.** Two lectures and one laboratory period a week. Third term.

## COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

*First Semester*

51. **COMPARATIVE ZOOLOGY.** Two lectures and one laboratory period a week. This course includes studies of types of different groups, discussion of principles and an outline of classification.
53. **COMPARATIVE ANATOMY OF VERTEBRATES.** A laboratory course. Three laboratory periods a week, devoted to Osteology, Myology, Neurology and a full study of certain type forms.
55. **COMPARATIVE ANATOMY OF VERTEBRATES.** A laboratory course. Five laboratory periods a week. Similar to 51, but more extended.
57. **ZOOLOGY AND ANATOMY.** Advanced laboratory. Three laboratory periods a week.
59. **ZOOLOGY AND ANATOMY.** Advanced laboratory. Five times a week.
61. **ENTOMOLOGY.** An advanced Practical Course. Five laboratory periods a week. This course must be preceded by Courses 51 and 52, or 1, or 4, or 7 in the College of Agriculture.
65. **ORNITHOLOGY.** Two laboratory periods a week. Open to those who have had Zoology 51, or its equivalent.

*Second Semester*

52. Continuation of Course 51. Lectures twice a week. One laboratory period.
54. Continuation of Course 53. Three laboratory periods a week.
56. Continuation of Course 55. Five laboratory periods a week.
58. Continuation of Course 57. Three laboratory periods a week.
60. Continuation of Course 59. Five laboratory periods a week.
62. Continuation of Course 61. Five laboratory periods a week.
64. **COMPARATIVE ZOOLOGY.** Three lectures and one laboratory period a week.
66. Continuation of Course 65.

Courses 57, 58, 59, 60, 61, 62, must be preceded by Course 1 in the College of Agriculture, or Courses 51, 52, or 53, 54, or 64; or an equivalent taken elsewhere. The student may choose his work from any of the following:

- (a) The Exhaustive Anatomy and Histology of the Frog.
- (b) Comparative Anatomy of Invertebrates.
- (c) Invertebrate Embryology.
- (d) Vertebrate Embryology.
- (e) Comparative Neurology.
- (f) Cellular Biology.

A student whose major lies in Zoology may take two full years' work, selected from subjects named in the foregoing list:

# ENROLLMENT

1898-1899



## COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE

## GRADUATE STUDENTS—6

	Home Address
Derby, Florence, B. Ph.....	Columbus
Flickinger, George A., B. Sc. (Agr.).....	York
McLaughlin, Annis, B. Ph.....	Columbus
Rice, Mabel Elise, B. Ph.....	Columbus
Ruhlen, Frank, B. Sc. (Agr.).....	Columbus
Sheldon, Helen Griswold, A. B. (Vassar College).....	Shepard

## UNDERGRADUATES—158

	Course	Course Hours	Credit Hours	Home Address
Abbott, Arthur Grant, B. Sc. (Agr.)..	.....	...	.....	Medina
Abbott, Carl B.....	Agr.	206	92½	Medina
Allen, Glen Lloyd.....	Agr. S.	98	13	Washington C.H.
Anderson, Joseph Buchanan.....	Agr. S.	98	101+8	Jewett
Address, Henry .....	Agr. S.	98	15	Birmingham
Armstrong, Clara .....	Dom. Sci.	203	101	Columbus
Atherton, William Thomas.....	Agr. S.	98	51+2	Carrollton
*Beale, Harry Glenn.....	Agr.	206	48	Mt. Sterling
*Beattie, Lena Leota.....	Dom. Sci.	203	91	Zanesville
Beattie, James Herbert.....	Agr. S.	98	39½	Zanesville
Beattie, Rosalie Mae.....	Dom.Sci.S.	90	18	Zanesville
Belden, Herbert Lucius.....	Agr.	204	93	Middlefield
Betts, Adelbert Hayes.....	Dairy	...	...	Kinsman
Blachley, Helen .....	†	...	...	Columbus
Boggs, Howard Shannon.....	Agr. S.	98	49½	Kingston
*Bratton, Alice May.....	Dom. Sci.	203	95	Columbus
Breckenridge, William Kemper.....	Agr. S.	98	48+5	Watertown
Brinker, Thomas William.....	Agr. S.	98	110+4	Chatham
*Bundy, Lyman Edmund.....	H. & F.	203	29	Colerain
Byers, William Gerald.....	Agr. S.	98	38	Lilly Chapel
Candy, Ella Belle .....	†	...	12	Columbus
Carl, Harry W.....	Agr. S.	98	25	Spanket
*Church, James Scott.....	Agr.	206	21½	Palmyra
*Clark, Herman Alfred.....	H. & F.	206	41	Medina
Clawson, Lucy Blanch.....	Dom.Sci.S.	90	45	Okeana
Clawson, Clarence, B. Sc. (Agr.).....	.....	...	...	Okeana
*Clevenger, Charles Henry.....	Agr.	206	73	Fletcher
Coates, Elsie Mae.....	Dom.Sci.S.	90	28	Columbus
Comstock, Allen L.....	Dairy	...	...	West Richfield
Cotton, Edwin Charles.....	Agr. S.	98	94+15	Elyria
Crabb, James Byel.....	Agr. S.	98	42	Mt. Sterling
Crawford, Mary B.....	Dom. Sci.	203	144	Blaine
Dallas, John Thomas.....	Agr.	204	145	Pine Valley

\* Preparatory work incomplete.

† Special—not a candidate for a degree.

	Course	Course Hours	Credit Hours	Home Address
*Davis, Vernon Hayes.....	Agr.	204	175	Byesville
Davis, Ella Augusta.....	Dom.Sci.S.	90	45	Constantia
*Day, Albert Edward.....	Agr.	206	48½	Mt. Carmel
*Demorest, Herbert Russell.....	Agr.	206	76	Columbus
Dennington, Wilbur Stanley.....	Dairy	...	...	Deckard, Pa.
*Dixon, Eva Nichalson.....	Dom. Sci.	203	64	Columbus
Dovel, Boyton .....	Agr. S.	98	36½	Pickerington
*Dresbach, Mary .....	Dom. Sci.	203	93	Columbus
Durkee, Ray H.....	Dairy	...	...	North Eaton
Ensign, Ernest Henry.....	Dairy	...	...	Parkman
Erf, Oscar, B. Sc. (Agr.).....	.....	...	...	Monroeville
Everett, Solomon Johnson.....	Dairy	...	...	Nelson
Finlay, Thomas Kirkwood.....	Agr. S.	98	66+4	Keene
*Finlay, Annetta Jane.....	Dom. Sci.	203	51	Keene
*Fippin, Elmer Otterbein.....	Agr.	204	187	Galloway
Fisher, Margaret Willmina.....	Dom.Sci.S.	90	16	Columbus
Fitts, Rollin .....	Dairy	...	...	Elyria
*Foster, Emma Warwick.....	Dom.Sci.S.	90	45	Higbys
*Foster, John Cook, Jr.....	Agr. S.	98	35+1½	Columbus
Frazier, Samuel Hamlin.....	Agr. S.	98	...	Nashport
*Galehouse, David William.....	Agr.	204	126	Doylestown
Gibson, Herbert R.....	Dairy	...	...	Camp Chase
Gilmore, Walter Hayes.....	Agr. S.	98	70+23	Millersport
Gilmore, William Henry, B. Sc. (Agr.) .....	.....	...	...	Millersport
Gladding, Maynard Marcus.....	Agr. S.	98	123	Windsor
*Greenlee, James Ross.....	Agr.	206	35	Bridgeport
*Griffith, Winford Irving.....	Agr.	206	...	Constantia
*Hamilton, Frank Edward.....	Agr.	206	44	Brownsville
Hamilton, Henry Hoge.....	Dairy	...	...	Brownsville
Hard, Jesse M.....	Agr. S.	98	36	Olentangy
Harn, George U., Jr.....	†	...	2	Columbus
*Harper, Merritt .....	Agr.	204	104	Grove City
*Hayden, Cassius Clay.....	Agr.	204	144	Oakdale
Heath, Harry Rogers.....	Dairy	...	...	Ft. Wayne, Ind.
Hershey, Benjamin Westheffer.....	Agr. S.	98	22	Easton
Hess, Flora Louise.....	Dom.Sci.S.	90	50	North Columbus
*Hill, Mamie Faye.....	Dom. Sci.	203	57	Columbus
Holloway, Carrie .....	Dom.Sci.S.	90	27	Columbus
Holmes, Ernest .....	Dairy	...	...	Wooster
Hoover, Louis Curtiss.....	Agr. S.	98	15	Ira
Imes, Marion, B. Sc. (Agr.).....	.....	...	...	Bashan
Immell, Woodford Elias.....	Agr. S.	98	16	Chillicothe
Irvine, James .....	Agr. S.	98	55	Richmond
Jackson, Walter Charles.....	Dairy	...	...	Andes, N. Y.
Jennings, Otto Emery.....	Agr.	206	50	Olena
Johnston, Fred Symes, B. Sc (Agr.)... ..	.....	...	...	Ashtabula
Jones, J. Lewis.....	Agr. S.	98	54	Penfield
Jones, Lloyd .....	Agr. S.	98	52½	Columbus
Kelly, Galena May Belle.....	†	...	34	Columbus
Kelley, William Lester.....	Agr. S.	98	79+13	Newark
Kent, Mary .....	Dom.Sci.S.	98	...	Cleveland

\* Preparatory work incomplete.

† Special — not a candidate for a degree.

	Course	Course Hours	Credit Hours	Home Address
King, John Clarence .....	Agr. S.	98	...	Fremont
Kirk, Edward Cassius .....	Agr.	206	39	Ashland
Klein, Henry Stephen .....	Agr. S.	98	...	Ironton
*Kolbe, Lawrence Albert.....	Agr.	204	95½	North Amherst
Ladrach, Lewis Frederick.....	Dairy	...	...	Rogersville
*Liles, Frederick William.....	Agr.	206	50	Collins
Long, Frank Clark.....	Agr. S.	98	50+12	West Sonora
Long, Frederick Pontius.....	Agr. S.	98	78+5	Kingston
Marion, Walter Jerid.....	Agr. S.	98	62+3	Amanda
Marshall, Ida .....	Dom. Sci.	203	39	Hemlock
Mason, Arthur Devillo.....	Agr.	204	93	Wellington
*Mayers, Mayme Louise.....	Dom. Sci.	203	5	Columbus
Meek, Eunice .....	Dom.Sci.S.	90	40	Afton
Meiche, Louis .....	Agr. S.	98	53	North Royalton
Mergler, Jacob Cornelius.....	Agr. S.	98	58	Mt. Washington
Metcalf, Walter Charles .....	Agr. S.	98	40+9	Temple
Miller, Henry Alexander.....	Agr. S.	98	8	Gypsum
Miller, Merritt Finley .....	Agr.	204	179	Ridpath
Miner, Charles Austin.....	Agr. S.	98	53+5	Bristolville
Montgomery, Frank .....	†	...	2	Columbus
Mooney, Charles Napoleon.....	Agr.	204	166	Milan
Mull, Ernest Clinton.....	Agr. S.	98	23+5	Lebanon
*Murray, Edna Earl.....	Dom. Sci.	203	94	Columbus
Murray, John B.....	Dairy	...	...	Penfield
McCall, Arthur Gillet.....	Agr.	204	153	McGaw
McClellan, John Arthur.....	Agr. S.	98	79+8	Cable
McClure, William W.....	Agr. S.	98	28½	Union City, Ind.
McKay, Welden Nickerson.....	†	...	47	New Burlington
*McLaughlin, Harrold .....	H. & F.	206	16	Columbus
McMahon, Mary Gertrude.....	Dom.Sci.S.	90	30	Columbus
*McOwen, James, Jr.....	H. & F.	204	120	Ovid
McOwen, Thomas .....	Agr. S.	98	40+21	Ovid
*Neill, Nelson Prentice .....	Agr.	204	89	Venice
Nettleton, Edward .....	Agr. S.	98	59+15	Medina
Newton, Sheldon Watrous.....	†	...	77	Boardman
Osborn, Alice .....	Dom. Sci.	203	51	Cadiz
Palmer, Roland Jay .....	Agr. S.	98	92+1	Penfield
Perry, Elma Brooks.....	Dom. S.	203	119	Troy
*Perry, John Cole.....	Agr.	204	120	Columbia Sta.
Phillips, John Howard.....	Agr. S.	98	...	Centerburg
Pierce, Benjamin Manly.....	Agr. S.	98	74+41	Ringgold
Postle, Carlton David.....	Agr. S.	98	30+4	Alton
*Postle, Florence .....	Dom. Sci.	203	48	Camp Chase
*Postle, Stuart A.....	Agr.	204	86	Camp Chase
Reno, Mell Lewis.....	Dairy	...	...	Clark
*Reppert, Alda Cora.....	Dom. Sci.	203	23	Columbus
Rexroth, Roy Abraham.....	Agr. S.	98	16	Bucyrus
Ridinger, John Gilbert.....	Agr. S.	98	100	Kalida
*Riley, Valeria .....	Dom. Sci.	203	92	Washington C.H.
*Robert, John Livingston.....	Agr.	204	113	Vaughnsville
Ruhlen, La Mott.....	Agr. S.	98	62+19	Plain City

\* Preparatory work incomplete.

† Special — not a candidate for a degree.

	Course	Course Hours	Credit Hours	Home Address
Sayre, Eliza Morgan .....	†	...	3	Columbus
*Schaeffer, Freelan Wilbert.....	Agr.	204	124	Spanker
Senter, Pearl .....	†	...	12	Shepard
Shaw, Edward Lee.....	Agr.	206	49	Newark
Shippee, Henry George.....	Dairy	...	...	Spraguev'le, N.Y.
*Sigrist, John Larkum.....	Agr.	204	55½	Congress
Skiles, Blanche Gertrude.....	Dom. Sci.	203	73½	Shelby
Smith, Leon D.....	Dairy	...	...	Mantua
*Snyder, Addison Hogan.....	Agr.	204	101	Tacoma
*Solether, Charles Franklin .....	Agr.	206	19	Jerry City
*Steward, Charles Benjamin.....	Agr.	204	167	Marcy
Taylor, Frederic Wellington.....	Agr.	204	155	Wooster
*Thompson, Benjamin Sells.....	Agr.	206	11	Wallsburg
Thompson, Edith Leontine.....	Dom. Sci.	90	10	Huron
Trowbridge, Warner Wesley.....	Agr. S.	98	53	Painesville
*Tyler, Fred J.....	H. & F.	204	159	Perry
*Uncapher, Jesse Darius.....	Agr. S.	98	55	Marion
Vandament, Orin Lee.....	Agr. S.	98	10	Hamersville
Vickery, John Bateman.....	Dairy	...	...	Rosscarberry, Ir.
Ward, Harry William.....	Agr. S.	98	48	Columbus
Warden, Leonard C., B. Sc. (H. & F.) .....	...	...	...	Avon
Weisman, Laura Anna.....	Dom. Sci.	197	142	Columbus
Whitman, Charles Henry.....	Dairy	...	...	Doylestown

## COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

### GRADUATE STUDENTS--27

	Home Address
Allen, Lucy, B. A.....	Columbus
Ball, Emma Leanna, M. Sc.....	Ironton
Benson, Clarissa W., B. A.....	Gambier
Blakiston, Mary, B. Ph.....	Columbus
Boyd, Emma, B. Ph.....	Columbus
Brown, Frank, A. B. (Macalester College) .....	Columbus
Claypoole, Charlotte Lake, B. Ph.....	Columbus
Clements, Frank Orville, M. A. (Otterbein University).....	Westerville
Detmers, Freda, M. Sc.....	Columbus
Dresbach, Melvin, B. Sc.....	Kingston
Flynn, Oscar R., B. Sc.....	Columbus
Frankham, Charles R. (Otterbein University) .....	Westerville
Fullmer, Edward Lawrence, B. Sc.....	Defiance
Hendricks Benjamin Murphy, A. B. (Denison University).....	Newark
Hirst, Anna Brewster (Antioch College) .....	Yellow Springs
Jeffrey, Maud Dorothy, B. Ph.....	Columbus
Kersey, William Rufus, B. A. (Earlham College).....	Columbus
Kirby, Harriet Rebecca, B. A.....	Columbus
Kohr, Donald Alexis, B. Ph.....	Westerville

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† Special — not a candidate for a degree.



	Home Address
Maag, Benjamin (Wooster University).....	Mt. Eaton
Meek, Edward D., B. A.....	Glencoe
Milne, Alexander M. A. (B. D., Yale University) .....	Duluth, Minn.
Osborn, Raymond Carroll, B. Sc.....	Columbus
Parker, John Bernard, B. A.....	Danville
Rasor, Samuel Eugene, B. Sc.....	Clayton
Scott, Daisy M., B. A.....	Columbus
Williams, Herbert Oswald, B. A.....	Columbus

## COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

### UNDERGRADUATES—371

	Course	Course Hours	Credit Hours	Home Address
Abbott, Roy A.....	E. Ph.	128	107	Columbus
*Adams, Elizabeth Jane .....	Arts	126	36	Columbus
*Adams, Margaret E.....	Arts	126	23	Columbus
Allaman, Ranson Perry.....	†	...	10	Trotwood
Anderson, John Milton .....	†	...	65	Greenville
Andress, Edna Alice.....	M. L. Ph.	126	56	Birmingham
Armstrong, Lucy Ruth.....	†	...	5	Hayesville
*Ash, Ray Charles.....	Med.	100	20	Ashland
Baird, Burgess Clay.....	L. Ph.	126	62	Troy
Baldwin, Elizabeth Grant, B. Ph....	.....	...	...	Columbus
Baldwin, Fredericka Hull.....	E. Ph.	128	48	Columbus
*Baldwin, Harry John.....	Journalism	98	33	Beverly
*Ball, Danforth Ewers.....	Science	129	74	Columbus
Barcus, Eliza .....	Arts	126	84	Columbus
*Bargar, Frederick Chase.....	Journalism	98	7	Columbus
Barnet, Clarence Elwood.....	†	...	80	New Paris
*Barrow, Ernest Manasseh.....	E. Ph.	128	34	New Vienna
*Barrows, Edward Morley.....	Journalism	98	21	Columbus
*Beatty, Carroll E.....	E. Ph.	128	56	Columbus
Beck, Edwin Long .....	L. Ph.	126	54	Lithopolis
*Beekman, Minnie Rose.....	†	...	37	Columbus
*Beer, James Anderson.....	Med.	100	29+17	Ashland
Bell, Florence Louise .....	E. Ph.	128	102	Columbus
*Bellows, Gertrude Halm .....	E. Ph.	128	36	Columbus
Benson, Julia P.....	†	...	3	Gambier
Biederwolf Charles Lewis.....	†	...	21	Columbus
Bigelow, Leslie L.....	Arts	126	34	Columbus
Bittner, William Pitt.....	Journalism	98	32	Sandusky
Bock, Harry W., B. Ph.....	.....	...	...	Canton
*Booth, Cora Vrooman .....	L. Ph.	126	18	Columbus
Bostwick, Homer Z.....	Arts	126	96	Columbus
Bostwick, Valeria .....	Arts	126	32	Columbus

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	Course	Course Hours	Credit Hours	Home Address
*Bowles, John Porter.....	Journalism	98	32	Columbus
Brandt, James Herbert, B. A.....	.....	...	...	Greencastle
Braun, Bertha Elizabeth.....	L. Ph.	126	...	Columbus
*Brooks, Stanley Grange.....	Science	129	33	Columbus
Brown, Albert Marion.....	†	...	61	Wauseon
Brown, Jessie L. P.....	Arts	126	24	Columbus
*Bruce, Horace V.....	M. L. Ph.	126	44	Eaton
Bryant, William Cheney.....	†	...	28	King's Creek
Burgess, James Henry.....	†	...	69+17	Big Horn, Wy.
*Burkey, Charles Paul.....	Journalism	98	27+2	Pleasantville
*Burris, Margaret May.....	M. L. Ph.	126	40	Columbus
*Butcher, Frederic Eric.....	E. Ph.	128	124	Buckland
Butler, Blanche Woodruff.....	Arts	126	63	Wellsville
Canfield, Dorothea Frances, B. Ph..	.....	...	...	Columbus
*Cannon, Anna Cathrine.....	Journalism	98	64	Columbus
Carmack, Caroline Martha.....	Arts	126	9	Columbus
*Carothers, Wilson Roy.....	Science	129	11	Sidney
Carpenter, Jessie Marie.....	E. Ph.	128	28	Columbus
Carpenter, Hattie Harrison.....	†	...	14	Columbus
Carr, Emma Perry.....	L. Ph.	126	32	Coshocton
*Carson, Nellie Eliza.....	L. Ph.	126	53	Harrisburg
*Chamberlain, Robert M.....	Science	129	49	Columbus
*Chaney, James William.....	E. Ph.	128	27	Columbus
*Chase, M. Elizabeth.....	L. Ph.	126	29	Columbus
*Clagett, Arthur E.....	Science	129	28	Dayton
Clapp, Katharine B.....	†	...	34	Norwalk
Clum, Harry Ernest, B. Ph.....	.....	...	...	Thornville
Cockerill, Orville P.....	†	...	34	Washington C.H.
Cockins, Rutherford Hayes.....	E. Ph.	128	96	Columbus
Colgan, Lillian Katharine.....	Arts	126	61	Columbus
*Collins, Walter Scott.....	Arts	126	72	Columbus
*Connolley, Augusta.....	L. Ph.	126	32	Columbus
*Connor, Alice Marie.....	E. Ph.	128	83	Columbus
Connor, Ellen Josephine.....	E. Ph.	128	96	Columbus
Converse, Walter, B. A.....	.....	...	...	Plain City
Corner, Edith.....	L. Ph.	126	52	Columbus
Cottom, Frank W.....	Med.	100	33	Dayton
Coursalt, Ida Mae, B. Ph.....	.....	...	...	Columbus
Courtright, Elizabeth Pauline.....	Arts	126	76	Columbus
Courtright, J. Loring.....	Arts	126	107	Circleville
Courtright, Stella Van.....	L. Ph.	126	61	Columbus
Cummings, Lawrence Belding.....	†	...	48	Columbus
*Cureton, Benjamin Fletcher.....	Arts	126	55	Columbus
*Davis, William Edgar.....	Arts	126	28	Columbus
Dean, Wilbur Spencer.....	†	...	27	Warsaw
De Frees, John Kessler.....	Arts	126	53	Troy
*De Nune, Ethel.....	Arts	126	26	Columbus
Derby, Alice G.....	L. Ph.	126	68	Columbus
*Determan, Hugo Philip.....	Journalism	98	58	Columbus
*Dever, Louisa.....	M. L. Ph.	126	71	Portsmouth
Dickinson, Thomas Herbert, B. Ph...	.....	...	...	Columbus

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	Course	Course Hours	Credit Hours	Home Address
Dickinson, George Codwice.....	Arts	126	70	Columbus
Dill, Augusta Dille .....	E. Ph.	128	111	Columbus
Dollison, Harvey Clinton .....	Med.	100	98+17	Zanesville
*Dolson, Benjamin Reimmund.....	E. Ph.	128	...	Lancaster
Donovan, Dennis Aloysius.....	E. Ph.	128	34	Columbus
Douth, Ida Helen .....	†	...	11	Athens
Dowd, Charles Fuller:.....	M. L. Ph.	126	109	Toledo
*Dubois, Wilbur L.....	Science	129	38	Cincinnati
Dufour, Alice .....	E. Ph.	128	86	Columbus
*Durstine, Florence Sarles.....	Arts	126	74	Columbus
Eagleson, John Hervey.....	Arts	126	88	Columbus
Eagleson, Joseph Pentecost.....	Arts	126	87	Columbus
Easton, Ernest Doane.....	Science	129	77	Springboro
*Ebright, Bessie .....	E. Ph.	128	17	Columbus
Eisenbise, Bertha .....	E. Ph.	128	96	Columbus
*Elsey, Raymond Amos.....	M. L. Ph.	126	24	Plain City
*Enlow, Charles Bates.....	E. Ph.	128	100	Bridgeport
Euans, William Weldon.....	E. Ph.	128	61	Columbus
*Evans, Thomas Daniel.....	Journalism	98	50	Newark
Ewalt, Clara Converse.....	E. Ph.	128	70	Columbus
*Falkenbach, Lydia .....	E. Ph.	128	25	Columbus
*Fawcett, Charles Fearnley.....	Science	129	21	Salem
*Figley, Mary Myrtle .....	M. L. Ph.	126	26	Marysville
Fisher, Ida May.....	L. Ph.	126	94	Columbus
Flanagan, Curran E.....	†	...	30	Kenton
Fleming, Joseph Hamilton.....	Science	129	34	Olentangy
Foster, Asa Emmanuel.....	Arts	126	24	New Salem
Fox, Ross Garfield.....	E. Ph.	128	71	Columbus
*Fullerton, Rutherford .....	Journalism	98	8	Columbus
*Gagle, Lafayette Matthias.....	E. Ph.	128	15	New Bremen
Gale, Irene .....	†	...	12	Columbus
*Game, Francis Harvey .....	E. Ph.	128	26	Can. Winchester
Games, Benjamin Herschel.....	†	...	4	Richwood
Gamper, Hattie.....	M. L. Ph.	126	88	Columbus
*Gardner, Frank I.....	Science	129	10	Worthington
Gauch, James Arlando .....	Arts	126	32	W. Manchester
Gayman, Charles Welton.....	E. Ph.	128	90	Can. Winchester
Geren, Helen Onata.....	E. Ph.	128	85	Columbus
*Godman, Leroy Hayes.....	Journalism	98	25	Columbus
Good, Paul Revere, B. A.....	.....	...	...	Westerville
Gordon, Sarah Bryarly .....	†	...	46	St. Mary's
*Gorham, Ira Garfield.....	Arts	126	16	Perrysville
*Gorman, Edward Albert.....	Arts	126	20	Columbus
*Graham, Reuben Jacob .....	E. Ph.	128	41	Northup
*Grant, Earl Cranston.....	Journalism	98	11	Grove City
*Green, Nellie Vitura.....	L. Ph.	126	72	Columbus
Greener, Gussie Howe.....	L. Ph.	126	66	Columbus
Gregg, Lillie .....	†	...	34	Triadelphia
Griswold, Edwin Viets.....	Arts	126	24	Worthington
Grovenbery, Ella.....	†	...	...	Columbus
Gruen, Frank William, B. Ph.....	.....	...	...	Columbus

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	Course	Course Hours	Credit Hours	Home Address
Gudenkauf, August B.....	Science	129	28	Sidney
Guittard, Claude B.....	M. L. Ph.	126	20	New Bedford
*Guy, Rodney Foos.....	M. L. Ph.	126	29	Plain City
Hains, Edna Esther.....	Arts	126	32	Bloomingsburg
*Hambleton, Ethel Ada.....	L. Ph.	126	60	Columbus
Hardy, Caroline Church.....	†	...	19	Columbus
Harris, Charles Pearl, B. Ph.....	.....	...	...	West Liberty
Hartsough, Jessie Glenada.....	L. Ph.	126	10	Columbus
Harward, Arthur Byron.....	Arts	126	82	Columbus
Hatton, Edna Bernice.....	L. Ph.	126	48	Columbus
Hauk, Will Comrie.....	Science	129	55	S. Charleston
*Hayward, Claudius Cadot.....	E. Ph.	128	10	Ironton
*Hazelton, Henson Marlow.....	E. Ph.	128	64	New Straitsville
Hendrickson, Bertha Edna.....	†	...	...	Columbus
Herrman, Jennie.....	†	...	14	Worthington
Herrick, Sara Ethel.....	E. Ph.	128	52	Wellington
Hicks, Nellie.....	Arts	126	62	Centerburg
Hicks, Mary Chapple.....	L. Ph.	126	22	Columbus
Hirsch, Rudolph.....	Science	129	57	Columbus
Hoffhines, Ralph Eugene.....	L. Ph.	126	...	Columbus
Hoffman, Hattie De Long.....	E. Ph.	128	81	Columbus
*Holcomb, Harry John.....	Arts	126	58	Columbus
*Holston, John George Frederick....	†	...	38	Zanesville
Holine, Mose A.....	†	...	29	Columbus
Hoover, Fred R., B. Ph.....	.....	...	...	Columbus
Hopkins, Bertha Marie.....	L. Ph.	126	21	Columbus
Hopkins, Clara M.....	L. Ph.	126	20	Columbus
*Hopkins, Edith Estelle.....	L. Ph.	126	29	Columbus
*Houghton, Henry Spencer.....	†	...	64	Columbus
Howard, Anna Faye.....	L. Ph.	126	118	Columbus
Huddleson, Mabel Lee.....	†	...	8	Columbus
*Hudson, Clara P.....	E. Ph.	128	24	Middleport
Huffman, Lillian Stuart, B. Ph....	.....	...	...	Columbus
Huggins, Burch Delaplaine, B. Ph...	.....	...	...	Hillsboro
Hungelmann, Arthur.....	Science	129	34	Columbus
*Hunt, Mary Fulton.....	L. Ph.	126	68	Columbus
*Hunt, Wallace Leedom.....	Science	129	39	St. Paris
*Hunter, Anna Eliza.....	M. L. Ph.	126	38	Columbus
Hurst, Lulu Kate.....	†	...	6	Piketon
*Huston, Frank Arilda.....	M. L. Ph.	126	52	Columbus
Hyneman, Rebecca Sara.....	†	...	7	Columbus
*Jackson, Faye Marie.....	E. Ph.	128	19	Columbus
‡Jameson, Plynne C.....	Med.	100	10	Avon
Jaynes, Allan Brown.....	E. Ph.	128	111	Columbus
Jeffrey, James Fred.....	Science	129	92	Columbus
Jeffrey, John Ralston.....	†	...	82	Huron
*Jenkins, Thomas Lewis.....	Arts	126	2	Plain City
*Jennings, Elma.....	Science	129	26	Eaton
Johnson, Edith Cherry.....	†	...	16	Columbus
Johnson, Lucy H.....	†	...	10	Worthington

\* Preparatory work incomplete.

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‡ Died October, 1898.



	Course	Course Hours	Credit Hours	Home Address
*Jones, Daniel C.....	E. Ph.	128	26	Jackson
*Jones, Edgar Lloyd.....	E. Ph.	128	37	Columbus
*Jones, Helen Perley.....	E. Ph.	128	22	Columbus
*Jones, John William.....	E. Ph.	128	56	Jackson
Jones, Richard Thomas.....	L. Ph.	126	107	Columbus
Jones, Victor Waite.....	E. Ph.	128	71	Columbus
Karshner, George Melville .....	Arts	126	91	Columbus
Kauffman, Henrietta Christine.....	M. L. Ph.	126	56	Columbus
*Kauffman, Margaret Glenn.....	M. L. Ph.	126	47	Columbus
Keating, David Thatcher, B. Ph.....	.....	...	...	Columbus
Kellerman, Karl Frederick.....	Science	129	109	Columbus
Kinder, Gordon Donald.....	E. Ph.	128	85	Ottawa
*King, Bernice .....	Arts	126	24	Columbus
King, Robert James, B. A.....	.....	...	...	Zanesville
Klein, David .....	†	...	102	Columbus
Knight, Caroline Estell .....	E. Ph.	128	78	Columbus
Kunkle, Fred Raymond.....	M. L. Ph.	126	24	Bryan
Kutz, Mabel .....	†	...	8	Milo
*Laybourn, Lawrence E.....	Journalism	98	38+12	Springfield
Lehman, John Wesley, B. Ph.....	.....	...	...	Can. Winchester
*Lentz, Florence .....	M. L. Ph.	126	43	Marysville
Lisle, Charles Howard.....	E. Ph.	128	83	Pataskala
Lisle, Dallas Gypsi, B. Ph.....	.....	...	...	Columbus
Lisle, Leslie Mac, B. Ph.....	.....	...	...	Columbus
Logsdon, Carey Ligouri, B. Ph.....	.....	...	...	Columbus
*Loren, Mary .....	L. Ph.	126	21	Columbus
Luse, Jessie Edna .....	E. Ph.	128	99	Columbus
*Lyons, Nellie .....	E. Ph.	128	24	Columbus
Machwart, Washington J.....	†	...	34	Fredericksburg
Mann, Wilbur Edwin, B. Ph.....	.....	...	...	Morrisville
Markel, John Riegel.....	†	...	20	Adelphi
*Marriott, Robert Henry.....	Science	129	63	Richwood
Martz, Velorus .....	Arts	126	66	Columbus
*Meade, Caroline Annis.....	M. L. Ph.	126	43	Columbus
Merkle, Albert Edward.....	Med.	100	31	Chillicothe
*Miller, Charles Reed.....	E. Ph.	128	26	Bellville
Miller, Fred A.....	E. Ph.	128	67	Columbus
Miller, Gretchen Pauline.....	E. Ph.	128	103	Columbus
*Mitzenberg, Allena May.....	L. Ph.	126	64	Columbus
Mock, Marcia Inez.....	L. Ph.	126	66	Columbus
Moloney, William Patrick.....	†	...	34	Prospect
Moon, Victor Clarence.....	M. L. Ph.	126	83	Farmer's Station
Moore, Edgar Howard.....	Science	129	107	Columbus
*Morgan, Roy .....	E. Ph.	128	34	Greenland
*Muirie, Frederick John .....	Arts	126	28	Youngstown
Mumma, Marion W.....	Science	129	72	Dayton
Mundhenk, Herbert C., B. Ph.....	.....	...	...	Brookville
Mundhenk, Ruth, B. Sc.....	.....	...	...	Dayton
Murdock, George Washington.....	E. Ph.	128	101	Carroll
*McAllister, Earl Saddler.....	E. Ph.	128	65	Columbus
McCallum, Raymond .....	E. Ph.	128	88	Dayton

\* Preparatory work incomplete.

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	Course	Course Hours	Credit Hours	Home Address
McDonald, Joseph Sylvester.....	E. Ph.	128	63	Rendville
*McGrew, Elizabeth Leanna.....	E. Ph.	128	36	Columbus
*McIntire, Clifford Samuel.....	E. Ph.	128	28	Ortonville, Mich.
McKelvey, Ralph Huntington.....	Arts	126	43	Sandusky
McKinney, Frank C.....	Arts	126	72	Columbus
McLaughlin, Clarence Graham.....	L. Ph.	126	62	Columbus
McLaughlin, Robert H.....	†	...	39	Fostoria
Nash, Simeon .....	Arts	126	64	Columbus
*Neiderhouse, Charles Henry.....	L. Ph.	126	...	Perrysburg
Neiswander, Lisle W .....	Med.	100	51	Grove City
*Nesbitt, David M.....	Journalism	98	27	Bellaire
Nichol, Gertrude Bell, B. Ph.....	.....	...	...	Columbus
Nichols, Ada May.....	M. L. Ph.	126	34	Chillicothe
*Norris, John S.....	M. L. Ph.	126	38	Columbus
Ort, Mary Elizabeth.....	†	...	10	Ironton
Orton, Samuel Toney.....	Science	129	49	Columbus
Osborn, Abner Andrews.....	Science	129	94	Columbus
*Parmenter, William Watt.....	Arts	126	94	Mt. Vernon
*Parsons, George McLellan.....	L. Ph.	126	61	Columbus
*Partridge, Bert Mitchell.....	Journalism	98	22	Flint
Patterson, Bertha Gildersheve.....	Arts	126	72	Columbus
*Pavlicek, Frank J.....	L. Ph.	126	55	Toledo
*Peoples, Emmet W.....	Arts	126	21	Pomeroy
Pitts, Grace Lenore.....	L. Ph.	126	98	Columbus
*Plum, Harley Martin.....	Arts	126	28	Ashville
*Pocock, Lucy Hunt.....	E. Ph.	128	34	Columbus
*Poole, Loren Winfield.....	E. Ph.	128	62	DeGraff
*Poorman, John D.....	Journalism	98	...	St. Paris
*Porter, George Henry.....	L. Ph.	126	58	N. Philadelphia
Potts, Helen Georgiana.....	†	...	12	Columbus
*Powell, Cornelia .....	Arts	126	24	Columbus
*Prince, Frank Joseph .....	Science	129	44	Millerstown
Pulling, Margaret Glaze.....	L. Ph.	126	88	Columbus
*Pumphrey, Josiah Merton.....	Med.	100	33	Martinsburg
Raymond, Maud, B. Ph.....	.....	...	...	Columbus
*Raymond, Maybelle .....	E. Ph.	128	42	Columbus
Redrow, Clara M.....	M. L. Ph.	126	19	Williamsburg
Redrow, Walter Leffingwell.....	Science	129	105	Williamsburg
Rees, Edith Celeste.....	Arts	126	68	Columbus
*Reese, David R.....	Arts	126	52	Shawnee
Reinhard, Frank J., Jr.....	E. Ph.	128	40	Columbus
Reütinger, Ernest Victor.....	Med.	100	31	Chillicothe
Rice, Susan Esther, B. A.....	.....	...	...	Columbus
Richardson, William Waddle, B. Ph..	.....	...	...	Columbus
Rickey, Tallmadge Archer.....	E. Ph.	128	94	Columbus
*Ridenour, Walter Ashton.....	Journalism	98	24	Jackson
Rietz, Henry Lewis, B. Sc.....	.....	...	...	Gilmore
*Rittenhouse, Pearle Gertrude.....	L. Ph.	126	28	Ostrander
Roach, Simeon Andrew, B. Ph.....	.....	...	...	Chillicothe
Robbins, George A., B. Ph.....	.....	...	...	Columbus
Rockwell, Mary Fannie, B. Ph.....	.....	...	...	Columbus

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	Course	Course Hours	Credit Hours	Home Address
*Rodocker, Oris Calvin.....	Arts	126	...	Hicksville
Roebuck, Carl Fletcher.....	E. Ph.	128	103	Dalton
Rogers, Frank P., B. A.....	.....	...	...	Columbus
*Rogers, John B.....	Journalism	98	22	Fostoria
*Rogers, Pennock B.....	Med.	100	...	Columbus
Roney, Mary Malvina.....	L. Ph.	126	66	Columbus
*Rushton, Norman.....	E. Ph.	128	32	Selkirk, Ontario
Sackett, Carl Leroy.....	†	...	67	Big Horn, Wyo.
Sackett, Walter George.....	Science	129	27	Columbus
*Sadler, Anna Belle.....	L. Ph.	126	37	Columbus
Sayre, Charles Boyd.....	Arts	126	98	Columbus
Scarlett, Henry L.....	Arts	126	66	Columbus
Schaff, Mae B.....	L. Ph.	126	94	Columbus
*Schantz, Albert J.....	Science	129	28	Dayton
*Schille, Clara Margaret.....	E. Ph.	128	27	Columbus
Schoedinger, Ferdinand P.....	Arts	126	38	Columbus
*Schönthal, Derso Clarence.....	E. Ph.	128	25	Columbus
Scott, Dudley.....	E. Ph.	128	90	Columbus
*Settle, Howard.....	Med.	100	...	Grove City
Seymour, Raymond Jesse.....	Science	129	96	Columbus
*Shaw, Harry R.....	E. Ph.	128	47	Zanesville
Singleton, Charles T.....	E. Ph.	128	79	Columbus
Sleeper, Ethel Burson.....	L. Ph.	126	18	Columbus
*Sloan, Charles A.....	Journalism	98	17+3	Columbus
Smart, George Alexander.....	E. Ph.	128	2	Dayton
Smith, Albertine Charleen.....	E. Ph.	128	105	Columbus
*Smith, Harold Osborn.....	L. Ph.	126	26	Columbus
Smith, Virginia Roletta.....	E. Ph.	128	104	Columbus
*Snow, Mason Jay.....	Journalism	98	26	Columbus
*Snyder, Arthur Talmadge.....	Arts	126	28	Paris
*Sparks, Homer H.....	Journalism	98	56+3	Columbus
Spencer, Ralph Oliver, B. A.....	.....	...	...	Columbus
*Sperry, Wilmot, Jr.....	E. Ph.	128	57	Mt. Vernon
Sprague, William Ralph, B. Ph.....	.....	...	...	Columbus
*Staley, Homer F.....	Arts	126	32	Columbus
Stanton, Frederic Moses.....	Med.	100	16	Ridgeville
Stauffer, Clinton.....	Science	129	96	Columbus
Steeb, Carl E., B. Ph.....	.....	...	...	Medina
Stephenson, Bertram Sheaver.....	L. Ph.	126	58	Jackson
*Stevenson, Ray David.....	L. Ph.	126	24	Fostoria
*Stewart, Gilbert Holland, Jr.....	Journalism	98	18	Columbus
Stimmel, Branson Claud.....	†	...	32	Columbus
Stimson, Charles Leslie, B. A.....	.....	...	...	Columbus
Stimson, George.....	Arts	126	91	Columbus
Sullivan, Oscar M.....	Arts	126	36	Columbus
*Swaney, Sara C.....	Journalism	98	20	East Liverpool
*Swift, Samuel Ferguson.....	E. Ph.	128	34	Jackson
Taylor, Bessie Battelle.....	L. Ph.	126	38	Columbus
*Taylor, William Harry.....	E. Ph.	128	37	Columbus
*Teter, Millicent.....	M. L. Ph.	126	12	Columbus
Theobald, Clara Freya.....	†	...	18	Columbus

\* Preparatory work incomplete.

† Special — not a candidate for a degree.

	Course	Course Hours	Credit Hours	Home Address
Thomas, Lawrence David.....	L. Ph.	126	92	Lancaster
*Thompson, King Gibson.....	E. Ph.	128	68	Georgetown
*Tilton, Josephus Howard.....	E. Ph.	128	79	Jelloway.
*Travis, Fred L.....	Arts	126	77	Pana, Illinois
*Travis, John F.....	Arts	126	82	Green Camp
*Turner, Bertha Lewis.....	M. L. Ph.	126	9	Columbus
*Van Sciever, Mae.....	E. Ph.	128	31	Columbus
*Veneman, Nevin Edward.....	Journalism	98	52+3	Dayton
Vinson, Albert E.....	†	...	80	Columbus
Wallace, Manch J.....	Arts	126	16	Columbus
Walsh, Frances Lyon.....	Arts	126	29	Columbus
Ward, Lila Lucile.....	L. Ph.	126	68	Reynoldsburg
Wagner, Bertha Emma.....	†	...	2	Belle Center
Ward, Philip Emerson, B. Ph.....	.....	...	...	Willoughby
Webster, Howard.....	†	...	32	Dayton
Weick, Carrie Rosina.....	Science	129	67	Columbus
*Weld, Harry Porter.....	L. Ph.	126	86	Marysville
*Welling, Cornelia Faith.....	Arts	126	64	Worthington
*Wells, Harry B.....	Arts	126	28	Columbus
Wells, Jessie Lauretta.....	†	...	...	Millgrove
Wertz, Edward Sleaser, B. Ph.....	.....	...	...	Dalton
West, Earl Downs.....	Arts	126	92	Columbus
*Whitaker, William Earl.....	E. Ph.	128	57	Wauseon
*White, Carroll Agnew.....	L. Ph.	126	21	Marysville
Whiteside John Wesley.....	E. Ph.	128	46	Bloomingsburg
William, Anna E., B. Ph.....	.....	...	...	Jackson
Williams, Clara Maude.....	M. L. Ph.	126	87	Columbus
Williams, Elza Young.....	Science	129	72	Pomeroy
*Wilson, Lewis Ernest.....	E. Ph.	128	60	Columbus
Wilson, Stella S.....	†	...	2	Columbus
Worcester, Wood Frank, B. Ph.....	.....	...	...	Columbus
Young, Dallas A.....	†	...	26	Dayton
Young, John Wesley, B. Ph.....	.....	...	...	Columbus
Young, Mary Grace.....	M. L. Ph.	126	98	Mt. Vernon

## COLLEGE OF ENGINEERING

### GRADUATE STUDENTS—6

	Home Address
Hale, Frederick James, M. E.....	Mogadore
Hewitt, Strafford Reeves, M. E. in E. E.....	Columbus
Judd Horace, M. E.....	South Hadley Falls, Mass.
Krumm, Louis Ralph, M. E. in E. E.....	Columbus
McIntire, Alfred Heber, M. E. in E. E.....	Mt. Vernon
Snively, Harry H., B. A.....	Columbus

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## UNDERGRADUATES—338

	Course	Course Hours	Credit Hours	Home Address
*Abbott, Donald Coleman.....	E. E.	220	5	Columbus
*Albery, Herman William.....	C. E.	214	25	Columbus
Alford, Arthur Milton .....	M. E.	220	94+4	Windham
*Ames, Holiday.....	C. E.	214	34+3	Ashland
*Armstrong, William Wirt.....	M. E.	220	...	Woodfield
*Arnold, Charles H.....	M. E.	220	56	New London
*Arons, Richard Demront.....	E. E.	220	2	Columbus
Atkinson, Warren, M. E.....	.....	...	...	Greenville, S. Ca.
*Bailey, Edward Harding.....	M. E.	220	60	Damascus
Bailey, Ervin George .....	E. E.	220	47	Damascus
Balcomb, Charles .....	Chemistry	202	41	North Ridgeville
*Balz, Ernest .....	C. E.	214	48	Columbus
*Balz, Louis Christian Frederick.....	C. E.	214	47	Columbus
*Barringer, John Martin .....	Chemistry	202	60	Washington, D.C.
Barringer, Lawrence Eugene....	Ceramics	207	143+5	Washington, D.C.
*Barry, William John.....	C. E.	214	38	New Straitsville
*Bauer, Louis E.....	E. E.	220	30+5	Springfield
*Baughman, Norman .....	E. E.	220	42	Roseville
Baumann, John Carl Bernhardt.....	Mining S.	91	59+8	Gütersloh, Germ.
*Bauroth, Walter John.....	M. E.	220	53	Springfield
*Beach, Charles Wesley.....	E. E.	220	42	Geneva
Beauchamp, Earl G.....	M. E.	220	...	Hamilton
*Bedwell, Charles Francis.....	E. E.	220	20	Columbus
Berkey, Leslie Reese.....	Ceramics S.	90	84+5	Bolivar, Pa.
Berndroth, Geary Martin.....	E. E.	220	42	Geneva
Billingsley, Robert Wallace.....	M. E.	220	54	Lisbon
Bischoff, John Wallace, E. M.....	.....	...	...	Elk Garden, W. Va.
Bleininger, Albert Victor.....	†	...	120	Columbus
Blose, Miller L.....	E. E.	220	206	Urbana
Boehme, Adolph Joe.....	M. E.	220	103+3	Youngstown
Bogardus, Evert .....	M. E.	220	48	Mt. Vernon
Bohm, Oscar Herman.....	Mining S.	91	91+8	Cleveland
Borger, Charles S.....	M. E.	220	86	Columbus
*Bostwick, Oliver Newton.....	E. E.	220	50+3	Mount Sterling
Bott, George Robert.....	M. E.	220	88	Columbus
*Bowden, Harry William.....	C. E.	214	139	Minerva
*Bowditch, John Henry.....	C. E.	214	83	Tracy
Bowdle, George Frederic.....	M. E.	220	40	Piqua
Bownocker, Francis Marion.....	Ind. Arts S.	96	35	Columbus
Branum, Frank C.....	E. E.	220	36+2	Bridgeport
Britton, Lloyd C.....	C. E.	214	36	Williamsburg
*Brooks, Herbert Barton.....	E. E.	220	58	Piqua
*Brooks, Wheeler Athens.....	E. E.	220	2	Ironton
Brophy, James Francis, E. M.....	.....	...	...	Elk Garden, W. Va.
Butler, John Francis.....	Ceramics S.	90	70+20	Austin, Texas
Bygate, Harry Goldsmith, M. E.....	.....	...	...	Steubenville
Cain, John .....	Chemistry	202	113	Urbana
*Calkins, Arda Hall.....	Chemistry	202	4	Columbus
Cameron, Harry Ezra.....	C. E.	214	104	Lisbon

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	Course	Course Hours	Credit Hours	Home Address
Campbell, Rollo Wilbur.....	E. M.	208	50	Fostoria
Campbell, Willis Elmer.....	C. E.	214	53	Fostoria
Cannan, William .....	Ceramics S.	90	45+5	Plymouth
Cappel, William Frederick.....	M. E.	220	...	Dayton
*Caskey, George Alexander.....	M. E.	220	49	Columbus
*Cavanaugh, Andrew Francis.....	M. E.	220	166	Dayton
*Cavin, Frank Thomas.....	E. E.	220	60	Spencer
*Chaffin, Wendel Wilson .....	C. E.	214	50+12	Dayton
Chandler, Homer Payne.....	E. E.	220	54+13	Columbus
*Chandler, Fred .....	Ind. Arts	201	44	New Comerstown
*Childs, Maxwell .....	E. E.	220	18	Troy
Clark, Clarence Julian, C. E.....	.....	...	...	Wilberforce
*Clarke, James Ulrick.....	E. E.	220	54	Lancaster
*Closson, Clayton Drew.....	†	...	126	Galena
Coleman, Albert C.....	Ind. Arts S.	96	18	Windsor
Comstock, Aytch Clay.....	E. E.	220	11	Nelsonville
Connors, John Leo.....	Mining S.	91	15+4	Columbus
Conrad, Verne Louis.....	C. E.	214	44+6	Columbus
*Cooke, Royal Alston .....	E. E.	220	104+10	Wyoming
Cooley, James Riddle.....	E. E.	220	16	Nelsonville
Cornell, Charles Brown.....	M. E.	220	52	Columbus
Cory, Mark Dee.....	C. E.	214	11	DeGraff
Cosley, Harvey Harter.....	C. E.	214	104	Troy
*Cox, Ross Stillwell.....	M. E.	220	27	Lewisburg
Crabill, Pearl P.....	M. E.	220	66	Springfield
Crable, Arthur.....	C. E.	214	134	Columbus
Crable, George .....	M. E.	220	50+3	Columbus
*Crumley, Cloise Hamilton.....	E. E.	220	51+7	Lancaster
Cryder, Howard Michael.....	Arch.	154	52	Chillicothe
Curtis, Leigh Goodrich, C. E.....	.....	...	...	Hamilton
Damon, Owen H.....	C. E.	214	139	Hinckley
*Dann, Walter M.....	E. E.	220	54	Columbus
*Davis, Charles L.....	E. E.	220	34	West Alexandria
Davis, George A.....	Ceramics S.	90	76+8	Shawnee
Davis, Thomas John .....	Ceramics S.	90	30+34	Girard
*Denny, Charles Wampler.....	E. E.	220	89	Middletown
De Wolf, Roger Dennison .....	E. E.	220	109+6	Madison, Ga.
*Diehl, Joseph A.....	Arch.	154	38+3	Defiance
Dierdorff, Percy Cyrus.....	M. E.	220	53+7	Columbus
Dill, Raymond .....	E. E.	220	111+5	Columbus
*Dobyns, Harvey Britton.....	E. E.	220	2	Columbus
Dole, Parr H.....	M. E.	220	21	Columbus
Doty, Charles Wilgerson.....	†	...	...	Hanging Rock
*Drummond, William George.....	M. E.	220	152+8	Cleveland
Duke, Carl Lewis.....	E. E.	220	116+6	Ridgeville
Dunlop, Robert Rowse.....	E. E.	217	163	Columbus
*Elliott, Emmett Foster.....	Arch.	154	47	Chesterhill
Elsner, Richard E.....	C. E.	214	39	Newark
*Eno, Imle L.....	E. E.	220	97+5	Pomona, Cal.
Erdmann, William .....	Ind. Arts	201	162	Chillicothe

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	Course	Course Hours	Credit Hours	Home Address
*Espy, Frank .....	†	...	58	Kenton
Evans, Charles Hopkins.....	Mining S.	91	40	Evanston
*Falkenbach, Schatz.....	Chemistry	202	4	Columbus
Ferguson, Morse Burton .....	Ind. Arts	201	...	Hanover
*Ferry, Roy W.....	E. E.	220	...	Leon
Fickes, Walter M.....	Ceramics	207	142	Steubenville
*Flory, Charles Henry.....	E. E.	220	24	Arcanum
*Follett, George Alfred.....	C. E.	214	65	Columbus
Ford, Nile Otis.....	E. M.	208	99	Wheeling, W.Va.
Fornof, Carl William.....	M. E.	220	13	Columbus
Foster, George C.....	E. M.	208	53	Schooley
Fouts, Edgar W.....	E. E.	220	111	Piqua
Frame, Rollo St. Clair.....	C. E.	214	99	Washington
Frankenberg, George T.....	M. E.	220	54	Columbus
Frankenberg, John Theodore, E. E....	.....	...	...	Columbus
Frechtling, Arthur George .....	M. E.	220	107+4	Hamilton
Freer, Will Davis.....	E. E.	220	42	Cortland
Friedland, Francis William.....	Mining S.	91	35+8	Coalton
Frost, George Winfield .....	M. E.	220	163	Columbus
Gamper, Herman, M. E.....	.....	...	...	Columbus
*Gates, William Paul.....	Ceramics	207	69+6	Hinsdale, Ill.
George, Robert G.....	E. M.	208	14	Piqua
Geren, Arthur G.....	Mining S.	91	30+10	Columbus
Geren, Harry Ogden .....	E. E.	220	148+21	Columbus
Gilchrist, Edward Luce.....	E. E.	220	57+3	Ashtabula
*Gleichauf, Frank S.....	Arch.	154	46	Newark
Gottwald, Christian .....	E. E.	220	117+2	Defiance
Graham, Frank .....	E. M.	208	38+5	Columbus
*Graham, Harry .....	E. M.	208	38+12	Columbus
*Gray, Thomas M.....	M. E.	220	25	Pittsburgh, Pa.
Green, Homer Stuart.....	E. E.	220	102	Raymond
Green, Joseph Walter, E. E.....	.....	...	...	Dayton
Hager, Le Roy William.....	C. E.	214	78	Piqua
*Hambleton, Charles Reverdy.....	E. E.	220	...	Hooksburg
Hammond, John Miller .....	C. E.	214	41+2	Columbus
Hance, Harry Thomas .....	Chemistry	207	97	Columbus
Hapgood, Eugene Palmer .....	E. E.	220	78+3	Sabina
*Hardy, Paul .....	E. M.	208	37	Columbus
Harkins, Robert Rusk .....	M. E.	220	163	Columbus
Harmer, Frederick Sturges.....	Mining S.	91	15	Columbus
Harper, Ellahue A.....	†	...	15	Columbus
Harrigan, Archer .....	Mining S.	91	92	New Castle, Pa.
Harris, Emmet .....	E. E.	220	4	DeGraff
Harrop, Carl .....	C. E.	214	53	Columbus
Hayman, Will Clayton.....	E. E.	217	165+9	Holgate
Hedges, Benson Rice.....	M. E.	220	88	Columbus
Herns, Albert Edward.....	†	...	50	Columbus
*Herrick, Hobert C.....	M. E.	220	13	Wellington
Herrick, Nellie .....	†	...	144	Columbus
Hershey, Arthur .....	Ind. Arts S.	96	5+7	Columbus
Hertner, John Henry, E. E.....	.....	...	...	Dayton

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	Course	Course Hours	Credit Hours	Home Address
*Higgs, Howard Clyde .....	E. E.	220	6	Newark
Hill, Harry Earl .....	C. E.	214	53	Richwood
Hirabayashi, Seikichi .....	†	...	3	Nagoya, Japan
Hirst, Harry .....	M. E.	220	41	Midvale
Hitch, James Frank .....	C. E.	214	53	Batavia
Holbrook, George Frederic .....	E. M.	208	36	Bucyrus
*Hord, Peyton Robert .....	E. E.	220	35+7	Marion
*Huddleson, Frank .....	M. E.	220	73+7	Columbus
*Hull, Walter Austin .....	E. E.	220	54	Orangeville
Hunter, Madone Carington .....	E. E.	217	161+5	Norwich
Huntington, Arthur, M. E. ....	.....	...	...	South Charleston
Itner, Warren Payne .....	Ceramics S.	90	88+14	St. Louis, Mo.
*Jacobs, Ronald .....	Ind. Arts	201	12	Columbus
*James, Frank Richard .....	E. M.	208	50	Columbus
*Jayne, Walter G. ....	E. E.	220	22	Springfield
Johnson, Earl S. ....	E. E.	217	158	Plants
Johnson, Walter A. ....	M. E.	220	52	Columbus
*Johnston, Howard Charles .....	M. E.	220	129+4	Rushsylvania
Jones, Howard Martin .....	E. E.	220	111+2	Marysville
Jones, Herbert Q. ....	†	...	60	Granville
Kanmacher, Samuel Houston .....	E. E.	217	170+16	Columbus
*Keating, Harvey Thomas .....	C. E.	214	48	Columbus
Keller, Daniel Casteel .....	E. E.	220	54	Washington C.H.
Kern, William Frederick .....	Chemistry	202	56	Bellaire
Kettering, Charles Franklin .....	E. E.	220	51	Loudonville
Kettler, Frank Christian .....	C. E.	214	104+6	New Bremen
King, Francis Emmet .....	Mining S.	91	53+2	Leisenring, Pa.
*King, Herbert Summer .....	C. E.	214	145+9	Medina
*Kinnear, Harry Baldwin .....	E. E.	220	50+5	Mt. Sterling
*Kinnison, Ernest Eugene .....	C. E.	214	48	Jackson
Kirker, Gaylord B. ....	Mining S.	91	30	Catlettsburg, Ky.
*Knieling, Charles August .....	E. E.	220	47	Willoughby
*Knight, William Abner .....	M. E.	220	190+3	Columbus
*Knoderer, Homer Guy .....	E. E.	220	55	Columbus
Knouff, Oliver Morton .....	C. E.	214	43+2	Caldwell
Knox, Frank S. ....	E. M.	208	160+10	Columbus
†Krause, Wilbur F. ....	M. E.	220	4	Columbus
Krumm, Thomas Zettler .....	C. E.	214	43	Columbus
*Laiblin, Garfield .....	M. E.	220	49	Canton
Lamb, Whitney Earl .....	E. E.	217	165+6	Commercial Point
*Lampert, John Martin .....	M. E.	220	58	Xenia
Lee, Corliss Edgar .....	E. E.	217	185	Pugh Post Office
*Leibold, Carl Peter .....	E. E.	220	40+6	Columbus
*Leinbaugh, George Gurden .....	M. E.	220	147+3	Bellevue
*Leith, Harry H. ....	C. E.	214	34	Wellsville
*Lesh, John Howard .....	M. E.	220	100	Louisville
*Lied, Ernst Mitchell .....	E. E.	220	40	Columbus
Linebaugh, Jesse Joseph, E. E. ....	.....	...	...	Pleasant Corners
*Linhart, Frank Clement .....	C. E.	214	38	Broughton, Pa.
Linville, Clarence Philander .....	Chemistry	202	147	Urbana

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‡ Died October 29, 1898.



	Course	Course Hours	Credit Hours	Home Address
Lockwood, Howard Thomas.....	C. E.	214	53	Batavia
Lontz, Harley C.....	Mining S.	91	25	South Bend, Ind.
Lyon, Arthur Hollingshead.....	M. E.	220	166	Wauseon
*Marckworth, Otto Stanley.....	†	...	125	Cincinnati
Marietta, Harry Riefsnider.....	E. E.	220	72+5	Dayton
*Marsh, Charles Lawrence.....	C. E.	214	109	Urbana
Marshall, Willard Beverley.....	E. E.	220	177	Piqua
Martin, John D., Jr.....	M. E.	220	133+12	New Straitsville
Mason, John T.....	†	...	15	Columbus
*Mason, Charles Filmore.....	E. E.	220	43+6	Columbus
*Melick, Neal Albert.....	C. E.	214	155	Columbus
Miller, Albert Arthur.....	E. E.	220	94+18	Zanesville
*Miller, Charles Emit.....	Arch.	154	96+3	Spencer
*Miller, John Franklin.....	E. E.	220	57	Columbus
*Miller, Ralph Charles.....	E. E.	220	91+18	Zanesville
*Monsarrat, Charles R.....	M. E.	220	...	Columbus
*Morlan, Wilbert.....	M. E.	220	41+7	Rogers
Morris, Willard Bernard.....	M. E.	220	47	Columbus
*Morris, William Blaine.....	M. E.	220	54	Massillon
Morris, Robert Hamilton.....	E. M.	208	92+17	Columbus
Myers, Albert B.....	E. M.	208	153+10	Columbus
Myers, Fred.....	C. E.	214	13	Louisville
McEowen, Hugh Ellsworth.....	†	...	26	Greenville
*McFarland, Horace M.....	E. M.	208	53	Columbus
McHugh, Francis.....	Mining S.	91	15	Carrolltown, Pa.
McIntosh, Roscoe Everitt.....	E. E.	220	98+3	Ravenna
McKeon, Robert Dale.....	C. E.	214	41	Arcanum
*McKinney, Earl B.....	Arch.	154	44	Columbus
Needham, Harry Smithson.....	M. E.	220	166+8	Columbus
Nicholson, Charles Marion.....	E. E.	217	158	Columbus
*Nidy, Herbert C.....	E. E.	220	101	Greentown
Nold, John H.....	E. M.	208	153	Columbiana
Nurian, Kerson, M. E.....	.....	...	...	Philipopolis, Bulg.
Oakes, James.....	Mining S.	91	15	Jackson Cen., Pa.
Ogbin, Clinton Vanneman.....	C. E.	214	92	Salem, N. J.
Osborn, Liphe Andrews.....	M. E.	220	41	Columbus
Pabodie, Robert J., M. E.....	.....	...	...	Wyoming
*Panter, Thomas Alfred.....	E. E.	220	54	Niag'ra Falls, N.Y.
*Parkin, William Z.....	M. E.	220	48	Columbus
*Parrett, Benjamin Creamer.....	Chemistry	202	45	Washington C.H.
*Patterson, Arthur Law.....	E. E.	220	42	China Grove, N.C.
Peck, Francis J.....	†	...	28	Yellowbud
*Peck, Louis Tucker.....	Ind. Arts	201	81	Staunton, Va.
Peppel, Samuel Vernon, B. Sc.....	Chemistry	...	...	Leetonia
Peterson, John William.....	Arch.	154	...	Port Clinton
Phillips, William Merrian.....	E. E.	220	95+11	Columbus
*Pierce, Robert Clark.....	C. E.	214	4	Tallmadge
Post, Malcolm Phelps.....	Ceramics S.	90	83+6	St. Louis, Mo.
Poto, Frank B.....	Chemistry	202	97	Alliance
Potts, Royal Warren.....	†	...	52	Columbus
Pratt, Fred Kellogg.....	C. E.	214	150	New Philadelphia

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	Course	Course Hours	Credit Hours	Home Address
Purdy, Ross C .....	Ceramics S.	90	90+50	Buffalo, N. Y.
Ransom, Ralph P.....	M. E.	220	94	Mt. Vernon
Rawson, Levi, C. E.....	.....	...	...	Lisbon
Reynolds, Carl .....	†	...	...	Columbus
*Riddle, Carlton .....	M. E.	220	175+15	Columbus
*Riebel, Leroy Clemens.....	Arch.	154	13	Columbus
Rightmire Robert Elwood .....	M. E.	220	72	Wheelersburg
Robbins, Edwin Thurston.....	†	...	41	Columbus
Rogers, Rutherford Hayes .....	E. E.	220	30+3	Columbus
*Roth, Clyde Ervin .....	E. E.	220	7	Tallmadge
*Roy, Charles Foster .....	E. M.	208	60+13	Glenroy
*Ryland, Paul Dillen .....	C. E.	214	119+2	Columbus
Sanderson, Clarence Herbert.....	E. E.	220	44	Logan
*Sanderson, Ray Rochester .....	E. E.	220	54+3	Washington C.H.
*Saxbe, Harry Moody .....	E. E.	217	74+2	Columbus
Sayers, Delbert Bancroft.....	E. E.	220	71+3	Marits
Schaeffer, Arthur .....	E. M.	208	...	Bucyrus
*Schaff, Harry M.....	E. E.	220	40	Columbus
*Schlochtermeyer, Carl Fred .....	E. E.	220	55	Cincinnati
*Schoenlaub, Thomas Jacob.....	C. E.	214	41	Marion
*Schott, Alvin Christian .....	E. E.	220	26	Massillon
Schreiber, George Ernst.....	E. E.	217	163	Ironton
Schreiber, John* Martin, E. E.....	.....	...	...	Ironton
Schwab, Frank Wilber.....	Chemistry	202	41	New Philadelphia
Senter, Herbert Pike.....	C. E.	214	52	Columbus
Sharp, John McDowell .....	C. E.	214	16	Columbus
*Shaw, Lucian .....	C. E.	214	36+3	West Lafayette
*Sheal, Leander .....	Chemistry	202	4	Steubenville
*Shepherd, Charles William.....	C. E.	214	153	Huron
*Sherman, John K.....	C. E.	214	110	Columbus
*Sherwood, Frank Porter .....	E. E.	220	74+8	Ashtabula
Shigley, Clarence Mason .....	†	...	16	Jamestown
*Shumate, Frank Douglass.....	E. E.	220	54	Urbana
Sigrist, Charles Ferdinand.....	Mining S.	91	54+7	Congress
Simcoe, George .....	Ceramics	207	31	North East, Md.
*Simpson, Henry Jerome.....	C. E.	214	58+3	Worthington
*Slater, Edward Earl.....	Mining S.	91	2	Nelsonville
Slick, Charles Jay.....	Mining S.	91	22	Mishawaka, Ind.
Smith, David William, C. E.....	.....	...	...	Ashland
Smith, Harry Ford.....	M. E.	220	54	Lexington
Smith, John Baker.....	E. M.	208	24	Tiffin
Smith, James Oliver .....	E. E.	220	32	Columbus
Sprague, Clarence M., C. E.....	.....	...	...	Summerford
Sproat, Amasa Delano.....	E. M.	208	53+6	Chillicothe
Staley, Marcellus, E. E.....	.....	...	...	Dayton
Standish, Miles Walter .....	†	...	...	Lima
Starbuck, Carl, E. E.....	.....	...	...	Barnesville
*Stark, Samuel .....	Ceramics	207	12	Tunkhannock, Pa.
*Sterling, James Gilman .....	M. E.	220	67	Springfield
*Stocker, James Arthur.....	C. E.	214	49	Gnadenhutten
Stone, Carleton Elijah, C. E.....	.....	...	...	Gallipolis

\* Preparatory work incomplete.

† Special — not a candidate for a degree.

	Course	Course Hours	Credit Hours	Home Address
*Stull, Raymond Thomas.....	E. E.	220	44+3	Elkland, Pa.
Sweeney, Paul Leslie.....	E. M.	208	40	Columbus
*Tanners, Edward Wood.....	E. E.	220	54	Zanesville
Taylor, George Edwin .....	E. E.	220	100+2	Marysville
Thomas, Alfred Redman.....	Mining S.	91	40	Glouster
*Thomas, David A. P.....	Arch.	154	50	Columbus
*Thompson, Ezra John .....	C. E.	214	47	Kirtland
*Thompson, Ira Albert.....	E. E.	220	20	Cleveland
Trish, George .....	Mining S.	91	45	Nevada
Tufts, Charles H., E. M.....	.....	...	...	Maineville
Van Dyke, Clifford Steele.....	E. E.	220	105	Ansonia
Voss, Harry Lincoln .....	Ind. Arts S.	96	15+10	Colo. Sp'gs, Col.
Vosskuehler, Joseph Henry.....	M. E.	220	166+15	Dayton
*Waddell, Starling .....	E. E.	220	42	Columbus
*Walker, Robert Harris.....	E. E.	220	54	Cincinnati
*Ward, Vernon C., Jr.....	M. E.	220	54	Columbus
*Warwick, Martin Luther .....	Chemistry	202	...	Seven Mile
Weber, Frederick Clarence .....	Chemistry	202	79	Evanston
Webster, Ellison Godfrey.....	M. E.	220	86	Greenville, S. C.
Wellbaum, Arvy E.....	E. E.	220	54	Brookville
Wells, Byron Bliss.....	E. E.	220	49	Ostrander
Weyrich, Edward .....	E. E.	220	7	Dayton
Wheaton, Robert John .....	E. E.	220	37+4	Columbus
*Whetsel, Emerson Jay.....	C. E.	214	53	Jackson
Whitaker, George Eliot.....	C. E.	214	84	East Liverpool
Wilcox, Carl Clifford.....	M. E.	220	47	Columbus
Williams, Alwin Zelffe.....	†	...	68	Chicago
Williams, Harry Ernest.....	M. E.	220	54	Harlem
Williamson Homer Davidson.....	E. E.	220	103+26	Monroe
Wilson, James Somerville.....	M. E.	220	109+17	Columbus
Wirthwein, Louis Philip, C. E.....	.....	...	...	Columbus
Wonder, Homer Higgins.....	Chemistry	202	43	Carey
*Woodmansee, Roy David.....	M. E.	220	18	Highland
Worcester, Wolsey G.....	Ceramics S.	90	70+75	Columbus
*Yost, Lloyd .....	M. E.	220	42	Somerset
*Zbinden, Herman Christian .....	C. E.	214	87+4	Toledo

## COLLEGE OF LAW

### UNDERGRADUATES — 191

	Year	Home Address
Addison, Arthur Everett, B. Ph.....	Second	Columbus
Addison, Clarence Maywood, B. Ph.....	Second	Columbus
Allen, Edward Harrison, A. B.....	Third	Lena
Amos, Frank Craig.....	First	Sidney
Armstrong, Russell Livingston .....	Third	Celina
Armstrong, Thomas H.....	First	Hayesville

\* Preparatory work incomplete.

† Special — not a candidate for a degree.

	Year	Home Address
Arnold, Harry Crumley.....	Second	Columbus
Ashman, Frank .....	First	Coshocton
Austin, John Gustave, B. S.....	Third	Sparta
Baggott, Roland Webb .....	Second	Dayton
Ball, George Gaylord.....	Third	Columbus
Bamer, Merton Leonard.....	First	Grand Rapids
Barrere, George Nelson.....	Third	Columbus
Bell, James Finley .....	Third	London
Benedict, Charles Yeddo.....	Second	Mansfield
Benner, Will D.....	Third	Croton
Bininger, James Wolfgong.....	Second	Lancaster
Blakesley, Philip .....	First	Dayton
Bockius, Harry Graham.....	Third	Canton
Bond, Charles Grosvenor.....	Third	Columbus
Bowers, Walton S.....	First	Hamilton
Brandt, James Herbert.....	First	Greencastle
Brewer, Charles Reed.....	Third	Bowling Green
Bright, Frederick Ijams.....	Second	Logan
Brumbaugh, Robert Nevin.....	Second	Dayton
Burgett, Willard M.....	Third	Salineville
Byers, William E.....	Second	Loudonville
Calkins, Frank Ellwood.....	Second	Grand Rapids
Carlisle, John Franklin .....	Third	Crestline
Cary, Charles Ross.....	Second	Millersburg
Carey, John T.....	First	Upper Sandusky
Chambers, Lyman K.....	Second	Genoa
Clark, Alexander B.....	Third	Canton
Clark, Clarence J.....	Special	Wilberforce
Cline, Walter Dew .....	Second	Dayton
Clum, Harry Ernest .....	Second	Thornville
Clutch, A. Ward; B. A.....	Third	Alcony
Courtright, Thurman Thomas.....	Second	Greencastle
Cox, Milton S.....	First	Sheldon
Crawford, William Harry .....	Second	Massillon
Curran, Bernard Franklin.....	First	Corning
Curtis, Leigh Goodrich.....	Special	Hamilton
Dally, John Randolph.....	Third	Centerburg
Darby, Roscoe Bryant.....	Second	Wauseon
Davidson, George Edwin.....	Third	East Liverpool
Dawson, Nathan Charles.....	First	Columbus
Deppen, Charles .....	Third	.....
Devol, Marion Luther.....	Third	Flint
DeWitt, Claude B.....	Second	Sandusky
Dille, Charles Wallace.....	Third	Nottingham
Donley, Russell Lee.....	Second	West Bedford
Doud, Harry L.....	First	Norwalk
Downing, Earl Summerville.....	First	Middleport
DuBois, Aaron Smock.....	Second	Franklin
Duff, Alfred L.....	Second	Port Clinton
Dunlap, Carl Reed.....	First	Columbus
Emmerling, John Valentine.....	First	Wauseon
Farnham, Harry Rathburn.....	Second	Edgerton
Fiebel, Louis .....	First	Hillsboro



	Year	Home Address
Finlay, Thomas Kirkwood.....	First	Keene
Flory, Charles Lewis.....	Third	Newark
Forsythe, John Lewis.....	Second	Cumberland
Frankenberg, Don Juan.....	First	Tempe, Arizona
Friedlich, Alfred .....	Second	Troy
Galloway, Arthur Clyde.....	First	Columbus
Game, Reed Haskell.....	Third	Canal Winchester
Gebhard, August Louis .....	First	Edgerton
Goddard, Edwin Newell.....	Second	Ashtabula
Godown, Joseph A.....	Third	Hilliards
Graven, D. Homer, A. B.....	Second	Nashville
Graff, Warren Noble, B. A.....	Third	Tiffin
Gross, Charles John.....	Third	Dayton
Gruen, Frank William.....	Third	Columbus
Haberer, Harry Andrew.....	First	Dayton
Hahn, Howard Edward.....	Third	Coshocton
Halverstadt, Herbert .....	First	Columbiana
Hamilton, Joseph Edson.....	First	Columbus
Hammond, Frederic Mathas.....	First	Smithfield
Hammond, Frank Nathan.....	First	Smithfield
Harvey, Arlington C., B. Ph., M. A.....	Third	Zanesville
Heacock, Irvin Francis, A. B.....	First	Alliance
Hershey, Harry Hartman .....	Second	East Greenville
Hoover, Frederic R.....	Second	Quincy
Hoover, George A.....	Third	Canal Fulton
Hough, Benson Walker.....	Third	Delaware
Howells, George A.....	Second	Massillon
Huggins, Burch Delaplaine.....	First	Hillsboro
Jacobs, Horace K.....	Second	Waynesville
Jahn, Nan .....	Second	Columbus
Jennings, Irwin G.....	Third	Zanesville
Jones, Bertram George.....	Second	Columbus
Jones, Charles Clark .....	Second	Wooster
Jones, Hanby Raymond.....	First	Westerville
Kellison, Edward Lafayette .....	Second	Quincy
Kinney, Harry B., B. Sc.....	Third	Belmont
Krupp, William E.....	Third	Uhrichsville
Lacey, Emmet .....	Third	Columbus
Lane, Quinton R.....	Second	Canal Winchester
Lash, Henry Lloyd.....	First	Bolivar
Lehman, John Wesley.....	First	Canal Winchester
Lloyd, Erastus Guy.....	First	Westerville
Malone, Francis Eastman.....	Second	Conneaut
Mallow, Lewis Earl .....	First	Washington C. H.
Mattingly, Herbert Howard.....	Second	Celina
Mays, James Wesley, B. Ph.....	Second	South Point
Meier, William Henry .....	Second	Mt. Carmel
Meily, Warren Paul.....	First	Lima
Minshall, Thaddeus Ellis.....	First	Chillicothe
Minshall, William Edwin.....	Second	Chillicothe
Mithoff, George D.....	First	Lancaster
Moore, Henry Curtis.....	Second	Bainbridge
Morgan, Lewis W.....	Second	Gibsonburg

	Year	Home Address
Morris, Ingle Alman.....	Second	Columbus
Myers, Milo L.....	Third	Marysville
McCleary, Clayton Asa, B. Ph.....	Second	Science Hill
McClure, Robert Edward.....	Second	Dayton
McCoy, Frank Lewis.....	Third	Salineville
McCray, Thomas Yates, Jr.....	Second	Mansfield
McLaughlin, Clarence G.....	First	Columbus
Nicola, Benjamin Di.....	Second	Barnhill
Nicholas, William Renfrew.....	Second	Columbus
Nicholas, John C.....	Second	St. Clairsville
Orton, Walter Edwin.....	Third	Will'msto'n, Mass.
Osborn, Francis Coates.....	First	Columbus
Outhwaite, Singleton Peabody.....	Third	Columbus
Paisley, Jay S.....	Third	Irondale
Pease, Edward Livingston, B. A.....	Third	Columbus
Peck, Foreman Jacob.....	Second	Clarksburg
Pence, William D.....	First	Columbus
Polk, Winfred Whittington .....	Second	New Vienna
Poole, Loren Winfield.....	First	DeGraff
Poorman, John D.....	First	St. Paris
Porter, Burton Perlee.....	Third	Canal Fulton
Postlewait, Neal, A. B.....	Third	Valier, Pa.
Price, Thomas Daniel .....	Third	New Straitsville
Rawson, Levi .....	Special	Lisbon
Reed, Bert .....	First	Piqua
Reeves, Claude John.....	Second	Columbus
Roller, George Ellis .....	Second	Greencastle
Sackett, Carl Leroy.....	First	Big Horn City, Wy.
Schlesinger, Hugo Nathan.....	Third	Xenia
Schwenk, William Jennings, B. A.....	Second	Kenton
Seney, Allen Joshua, Ph. B.....	Third	Toledo
Seney, George Ebbert, Jr.....	First	Toledo
Shaw, John William .....	First	Troy
Shepherd, George Harvey.....	First	Dayton
Shipman, Leonard H.....	Third	Troy
Skiles, Roscoe Carleton.....	First	Shelby
Smart, George Alexander.....	First	Dayton
Smith, Charles Rylatt.....	First	Huron
Smith, David William.....	Special	Ashland
Smith, Warren Lee.....	Third	Columbus
Smith, Wellington Cornell.....	First	Lytle
Southworth, Ferdinand Leek.....	Second	Alliance
Sprague, Charles Franklin, B. A.....	Third	Wapakoneta
Sprague, Clarence M.....	Special	Summerford
Sprague, William Ralph.....	First	Columbus
Stevenson, Amos Claude, A. B.....	First	Fostoria
Stiger, Thomas A.....	Third	Bucyrus
Stone, Carlton Elijah.....	Special	Gallipolis
Stoolfire, Henri Stanton.....	Second	Columbus
Stough, Luther Bertrand.....	Third	Bellefontaine
Strecker, George William .....	Third	Marietta
Sullivan, J. Clarence.....	First	Columbus
Tangemann, Theodore H.....	First	Kettleville

	Year	Home Address
Tanner, John Robert.....	First	Mt. Sterling
Thompson, George S.....	Third	Smith's Ferry, Pa.
Toland, Harford Aquilla.....	Second	Columbus
Turner, Edward C.....	First	Columbus
Van Sciever, Armand L.....	First	Grove City
Voegele, William Frederick, Jr.....	Second	Mansfield
Wakefield, George W.....	First	Reynoldsburg
Warden, Hosea Gilford.....	First	Columbus
Ware, J. Walter.....	First	Dayton
Watkins, Howard Rice.....	Second	Blanchester
Weidling, Carl Philip.....	Third	Tiffin
Welsh, Harford Burnette.....	Third	Columbus
Wertz, Edward Sleser.....	First	Dalton
West, Frederick Rollin.....	First	Columbus
Wharton, Homer Franklin.....	First	Washington
Wheeler, Newberry William, Jr.....	First	Portland
Wildermuth, Andrew LeRoy.....	Third	Columbus
Williams, Lloyd Thomas, B. Ph.....	Second	Jackson
Williamson, Allen Thurman, A. B.....	First	Grandview
Wirthwein, Louis Philip.....	Special	Columbus
Woods, Charles Howard.....	Second	Chillicothe
Worcester, Wood Frank.....	First	Columbus
Worman, Horace Dye.....	First	Dayton
Wulff, August R.....	First	Dayton
Yockey, Paul B., B. A.....	Second	Columbus
Zimmer, Frank A.....	Third	St. Paris

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## COLLEGE OF PHARMACY

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### GRADUATE STUDENTS—1

	Home Address
Landacre, Walter Alexander, G. Ph.....	Columbus

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### UNDERGRADUATES—34

	Course	Course Hours	Credit Hours	Home Address
Bowen, Charles Flood .....	+	...	119	Columbus
Bradshaw, Harry James.....	Short	112	103+24	Columbus
Burr, Frank Henry.....	+	...	96	Columbus
Burt, Charles Conway.....	Long	206	59	Coshocton
*Canfield, Delos Wilford, Jr.....	Long	206	75	Chardon
Clelland, Franklin Pierce.....	Short	112	68+3	Lockville
Day, Clayton Miller.....	Short	112	110+9	Blanchester
Foster, George Gruel.....	Short	112	58	Columbus
Funk, Roy William.....	Short	112	109+9	Chesterhill

\* Preparatory work incomplete.

	Course	Course Hours	Credit Hours	Home Address
Gape, Arthur Garfield.....	Short	112	23	Ashtabula
Gardner, Charles Alfred.....	Short	112	53	Danville
Harvey, Lucy Manola.....	Short	112	54+55	Pomeroy
Hess, Ada E.....	Short	112	13	Bloomingsburg
Holloway, David Frank.....	Long	206	139	Middletown
Huff, George Harry.....	Long	206	149	Middletown
Johnson, William Noel.....	Short	112	103+9	Piqua
Kathe, John Bernard.....	Short	112	110+7	Circleville
Kerr, Franklin Pierce, Jr.....	Short	112	110+6	Columbus
Kimberly, Charles Hubbell.....	Long	206	144+24	North Fairfield
Knowlton, Fred A.....	Short	112	15	Granville
Lallance, Leroy Armstrong, Jr.....	Short	112	85+9	Wheeling, W.Va.
Milligan, Herbert Ray.....	Short	112	...	Columbus
Naddy, Charles Joseph.....	Short	112	90+3	Columbus
Peck, James Francis.....	Short	112	71+4	Columbus
Potter, Lewis Hall.....	Short	112	96+14	Columbus
Rostofer, Freeman Allen.....	Short	112	105+6	Pataskala
Sandoe, DeNevin.....	Short	112	46+2	Columbus
Sellenings, Oscar.....	Short	112	43+24	Chillicothe
Swimley, Asbury Carlton.....	Short	112	18	Forest
Trump, August C.....	Short	112	...	Pherson
Vonderan, Charles Leo.....	Short	112	38	Waterford
Wagstaff, Harry Garfield.....	Long	206	82+5	Niles
Williamson, Frank Elwood.....	Short	112	5	Greenville
Young, Cyrus Homer.....	Long	112	47	Wooster

## COLLEGE OF VETERINARY MEDICINE

### GRADUATE STUDENTS—1

	Home Address
Brumley, Oscar Velos. D. V. M.....	Townwood

### UNDERGRADUATES—11

	Course	Course Hours	Credit Hours	Home Address
*Detchon, Aubrey Bloxsom.....		178	168	Youngstown
Eddy, William.....		177	123	East Cleveland
*Griffin, Frank.....		177	111	Columbus
*Hammond, Harry James.....		177	120	Sharon Center
*Irwin, Albert N.....		177	57	Columbus
*Johnson, Jay Clement.....		177	18	Big Plain
*Johnson, Theodore Charlemagne.....		177	68	Akron
*Metzger, Edward Louis.....		177	46	Louisville
*Morrow, Charles James.....		177	120	Tiro
*Sparhawk, William Theron.....		178	171	Tallmadge
Umberger, Lee.....		177	...	Wytheville

\* Preparatory work incomplete.



## SUMMER SCHOOL—34

1898

Allen, Lucy .....	Columbus
Bowman, Perla G.....	Toledo
Boyd, Emma .....	Columbus
Bradshaw, Mabel .....	Ravenna
Detmers, Freda .....	Columbus
Dufour, Alice .....	Columbus
Drummond, William George.....	Cleveland
Durham, Josephine .....	Danville
Erf, Oscar .....	Monroeville
Gale, Irene .....	Columbus
Given, Ernest .....	Sidney
Graham, Emma .....	Sidney
Haig, Mary .....	Columbus
Hock, Lulu .....	Philo
Ingram, Imogene .....	Columbus
Kanmacker, Houston .....	Columbus
Keagle, Anna B.....	Columbus
Knight, William Abner .....	Columbus
Knopf, Eva S.....	Columbus
Lewis, Magdalen .....	Granville
Lewis, James Henry.....	Gallipolis
Lynch, Elizabeth .....	Greenville
Mullay, Rose .....	Columbus
Naddy, Elizabeth Helen.....	Columbus
Rankin, Harriet Minerva.....	Columbus
Scott, John Willard.....	Huntington, W. Va.
Smith, Russel Bigelow.....	Ripley
Stephan, Edward Valentine.....	Sardinia
Tooill, George Washington.....	New Bremen
Vinson, Albert Earl.....	Columbus
Voke, Mabel .....	Columbus
Waddell, Starling .....	Columbus
Winchet, Frances Isabelle.....	Dayton
Wright, Helen .....	Columbus

## GENERAL SUMMARY

COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE—		
Graduate Students .....	6	
Undergraduates .....	158	
COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE—		164
Graduate Students.....	27	
Undergraduates .....	371	
COLLEGE OF ENGINEERING—		398
Graduate Students.....	6	
Undergraduates .....	338	
COLLEGE OF LAW—		344
COLLEGE OF PHARMACY—		191
Graduate Students.....	1	
Undergraduates .....	34	
		35

## COLLEGE OF VETERINARY MEDICINE —

Graduate Students.....	1	
Undergraduates .....	11	12
		<hr/>
Summer School, 1898 .....		34
		<hr/>
Total.....		1,178
Names counted twice .....		29
		<hr/>
Net total .....		1,149

## SUMMARY BY COUNTIES.

Allen .....	2	Guernsey .....	4	Morrow .....	2
Ashland .....	9	Hamilton .....	8	Muskingum .....	16
Ashtabula .....	11	Hardin .....	4	Noble .....	1
Athens .....	6	Harrison .....	3	Ottawa .....	4
Auglaize .....	6	Henry .....	1	Perry .....	12
Belmont .....	13	Highland .....	3	Pickaway .....	5
Brown .....	5	Hocking .....	2	Pike .....	1
Butler .....	10	Holmes .....	2	Portage .....	6
Carroll .....	1	Huron .....	9	Preble .....	7
Champaign .....	13	Jackson .....	12	Putnam .....	4
Clark .....	8	Jefferson .....	8	Richland .....	8
Clermont .....	7	Knox .....	15	Ross .....	21
Clinton .....	8	Lake .....	6	Sandusky .....	2
Columbiana .....	15	Lawrence .....	11	Scioto .....	3
Coshocton .....	10	Licking .....	17	Seneca .....	9
Crawford .....	7	Logan .....	9	Shelby .....	6
Cuyahoga .....	9	Lorain .....	14	Stark .....	20
Darke .....	7	Lucas .....	6	Summit .....	7
Defiance .....	4	Madison .....	13	Trumbull .....	6
Delaware .....	7	Mahoning .....	5	Tuscarawas .....	12
Erie .....	11	Marion .....	5	Union .....	14
Fairfield .....	19	Medina .....	11	Vinton .....	1
Fayette .....	10	Meigs .....	9	Warren .....	8
*Franklin .....	426	Mercer .....	3	Washington .....	5
Fulton .....	5	Miami .....	19	Wayne .....	13
Gallia .....	2	Monroe .....	1	Williams .....	3
Geauga .....	3	Montgomery .....	37	Wood .....	5
Greene .....	4	Morgan .....	6	Wyandot .....	3

## SUMMARY BY STATES AND COUNTRIES

(As far as known)

Arizona .....	1	Japan .....	1	Ohio .....	1067
Bulgaria .....	1	Kentucky .....	1	Ontario .....	1
California .....	1	Maryland .....	1	Pennsylvania .....	10
Colorado .....	1	Massachusetts .....	2	South Carolina .....	2
Georgia .....	1	Michigan .....	1	Texas .....	1
Germany .....	1	Missouri .....	2	Virginia .....	1
Illinois .....	3	New Jersey .....	1	Washington, D. C. ....	2
Indiana .....	4	New York .....	4	West Virginia.....	5
Ireland .....	1	North Carolina ..	1	Wyoming .....	2

\* Nearly forty-two per cent. of the students registered from Franklin county are those whose homes are at Columbus only during their University course.

## OCCUPATIONS

OF THE PARENTS OF STUDENTS WHO HAVE ENTERED THE  
UNIVERSITY SINCE SEPTEMBER, 1895.

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Abstractor .....	1	Lake marine.....	2
Architects .....	4	Laundryman .....	1
Bakers .....	2	Lawyers .....	89
Bankers and brokers.....	36	Lecturer .....	1
Barbers .....	2	Liquor dealers.....	2
Blacksmiths .....	3	Liverymen .....	3
Book-keepers .....	10	Machinists .....	9
Brewers .....	1	Manufacturers .....	100
Butchers .....	4	Masons .....	9
Carpenters .....	24	Merchandise, dealers in (not other-	
Cemetery superintendents .....	2	wise specified).....	178
Circuit judge .....	1	Mechanics .....	11
City officials .....	5	Metal workers .....	5
Clerks .....	3	Miners .....	10
Coal dealers .....	13	Ministers .....	32
Collector .....	1	Musician .....	1
College presidents .....	2	Padmaker .....	1
County officials .....	16	Painters .....	2
Dairymen .....	14	Piano tuner.....	1
Day laborers .....	17	Photographer .....	1
Decorators .....	2	Physicians .....	77
Dentists .....	3	Plasterers .....	4
Dressmakers .....	2	Printers .....	5
Druggists .....	16	Private corporation officials.....	9
Electricians .....	2	Potter .....	1
Engineers (civil).....	9	Publishers .....	2
Engineer (mechanical).....	1	Railway employes.....	46
Engineer (mines).....	1	Real estate .....	31
Engineers (stationary).....	3	Retired .....	33
Express agents.....	3	Saloonkeeper .....	1
Farmers .....	561	Shoemakers .....	3
Florist .....	1	Silver-gilder .....	1
Furnace builder.....	1	State officials .....	12
Geologist .....	1	Stenographer .....	1
Glassblower .....	1	Stock dealers .....	6
Grain dealer.....	1	Tailors .....	6
Government service.....	14	Tanners .....	2
Hotels and restaurants.....	11	Teachers .....	38
Horse dealer.....	1	Transfer .....	3
Ice dealer.....	1	Traveling salesmen .....	50
Insurance .....	29	Township clerk .....	1
Janitors .....	2	Undertakers .....	6
Jewelers .....	5	Veterinary surgeon .....	1
Journalists .....	21	Watchman .....	1

# GRADUATES





# GRADUATES

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The faculty of the Ohio State University are anxious to place a copy of each annual catalogue in the hands of every graduate. They will esteem it a favor if any alumnus who changes his residence will notify the Executive office of his new address and occupation. They will also be grateful for any information from any source, that may assist in making or keeping the Directory of the Alumni complete and correct.

## ALUMNI ASSOCIATION

### OFFICERS FOR 1899-1900

WILLIAM WHITE KEIFER, '86, Springfield.....	<i>President</i>
HERMAN S. BRONSON, '97, Columbus.....	<i>Vice-President</i>
MRS. CHARLES WING, '80, Columbus.....	<i>Secretary</i>
FRANK A. RAYMOND, '88, Columbus.....	<i>Treasurer</i>
JOSEPH S. MYERS, '87, Pittsburg, Pa.....	<i>Orator</i>
G. GLEN ATKINS, '88, Greenfield, Mass.....	<i>Alternate</i>

### COMMITTEE ON COLLEGE AFFAIRS

WALTER J. SEARS, '94, Chillicothe.....	Term expires 1900
FLORIZEL SMITH, '80, Columbus.....	" 1901
MRS. HARRY I. ABBOTT, '93, Columbus.....	" 1902
LORING HAPGOOD GODDARD, '92, Sullivan, Ind.....	" 1903
KARL T. WEBER, '97, Columbus.....	" 1904

### COMMITTEE ON NECROLOGY

WILBY G. HYDE, '87, Chillicothe.....	Term expires 1900
LOWRY F. SATER, '95, Columbus.....	" 1901
DAISY M. SCOTT, '87, Columbus.....	" 1902



# DIRECTORY

## A

- Abbott, Arthur Grant, 1899, B. Sc. (Agr.), Medina.
- Ackerman, Eli Osborn, 1884, C. E., 2664 North High street, Columbus, Columbus Street Railway Co.
- Ackerman, Fremont, 1883, C. E., Los Angeles, Cal., civil engineer.
- Addison, Arthur Evert, 1895, B. Ph., Columbus, teacher East High School.
- Addison, Louis Granville, 1892, LL. B., Columbus, attorney-at-law.
- Addison, Clarence Maywood, 1896, B. Ph., Columbus, teacher Central High School.
- Agler, Eulalia, 1895, G. Ph., Columbus, with Columbus Pharmcal Company.
- Albert, Louisa Mary, 1896, G. Ph., Mrs. A. E. Vinson, Columbus.
- Aldrich, Chester H., 1888, B. A., LL. B., David Citv. Neb., attorney-at-law.
- Aldrich, Edgar S., 1897, M. E. in EE., Westerville, secretary and manager Westerville Electric Light Co.
- Alexander, St. Clair, 1893, M. E. in EE., Bridgeport.
- Alexander, Charles P., 1896, M. E. in EE., Letart Falls, teacher of science.
- Allaman, William Ernest, 1896, G. Ph., Brookville.
- Allen, Edward Harrison, B. A. (Ohio Wesleyan University), 1899, LL. B., Lena.
- Allen, Lucy, 1897, B. A., Columbus, library assistant, State University.
- Alsdorf, Percy Reed, 1896, E. M., Central City, Col., Standard Assay office.
- Alsdorf, Frederick Charles, 1892, E. M., Central City, Col., general manager, DuQuesne Mining Co.
- Alspach, Rufus Edwin, 1897, M. A. (B. A. Heidelberg), Thornville.
- Anderson, James T., 1884, B. A., Colorado Springs, Col., 1st Lieutenant U. S. Army.
- Anderson, Newton M., 1879, B. Sc., Cleveland, Principal of the University School.
- Andrews, Albion Joseph, Jr., 1893, LL. B. (B. S., Ohio Wesleyan University), Zanesville.
- Andrews, Lincoln Elmer, 1893, LL. B., 1895, B. Ph., Columbus, attorney-at-law.
- Armstrong, Edna, 1897, B. Ph., Columbus.
- Armstrong, William H., 1890, G. Ph., Marysville, druggist.
- Arnold, Charles Lincoln, 1890, B. Sc., 1894, M. Sc., West Eighth ave., Columbus, assistant professor in mathematics, State University.
- Arnold, Edwin E., 1898, M. E., Westinghouse Machine Co.
- Atkins, G. Glenn, 1888, B. A., Greenfield, Mass., pastor Congregational Church.
- Atkinson, Warren, 1899, M. E., Greenville, S. C.
- Auld, James A., 1897, M. E. in EE., Columbus, with D. S. Auld, 76 East Gay street.
- Austin, John Gustave, 1899, LL. B., Sparta.

## B

- Bachtell, Nellie May, 1895, B. A., New London, teacher.
- Backhaus, Henry Ward, 1894, B. A., Wapakoneta, cashier People's National Bank.
- Baer, Philip, Jr., 1897, B. Sc. (Agr.), Gratiot, creamery operator.



- Bagley, Anna Gertrude, 1894, G. Ph., Columbus.
- Baker, James Burt, 1898, LL. B., Salem.
- Baker, John Ezra, 1897, B. A., 1898, LL. B., St. Paris.
- Baker, William Hollister, 1892, B. Agr., Farmersville, Mo., farmer and stock raiser.
- Baldwin, Elizabeth Grant, 1899, B. Ph., Columbus.
- Baldwin, Zoa Belle, 1896, B. A., Prospect, teacher in High School.
- Ball, Emma Leanna, 1895, B. Sc., 1896, M. Sc., Columbus, fellow in mathematics, State University.
- Ball, Fred S., 1888, B. Ph., Montgomery, Ala., attorney-at-law.
- Bancroft, Gay, 1898, B. A., Columbus.
- Barcus, Miner, 1897, M. E. in EE., Schenectady, N. Y., with General Electric Company.
- Barlow, Helen M., 1898, B. Ph., Columbus.
- Barnaby, Charles L., 1898, C. E., Columbus.
- Barnaby, Josephine, 1896, B. Ph., Warren, teacher.
- Barrows, Harry Holbrooke, 1898, C. E., Lexington, Ky., engineer on Queen & Crescent Ry.
- Bartholomew, Clyde Stanley, 1896, C. E., Zanesville, civil engineer B. & O. Ry.
- Basterdes, Ada Mabel, 1890, B. Ph., Plano, Ill., teacher in High School.
- Bates, Josephine M., 1881, B. Ph., Mrs. Florizel Smith, Columbus.
- Bates, Wesley C., 1882, LL. B., 35½ N. High street, Columbus, attorney.
- Baughman, George W., 1897, G. Ph., Leipsic.
- Beach, David Price, 1895, C. E., Wellsville, in employ of Pennsylvania Railroad.
- Beach, Margaret Alice, 1891, B. Ph., Mrs. Wilson Holman, Bayonne, N. J.
- Beardsley, Orasmus D., 1898, B. Ph., Garrettsville.
- Beattie, William Renick, 1894, B. Sc., 1897, M. Sc. (in Horticulture), Columbus florist.
- Beck, Arthur Andrew, 1893, C. E., Columbus, county surveyor's office.
- Belden, Sanford Bonner, 1895, E. M., Chicago, Ill., with Chicago Electric Mining Engineering Co.
- Bell, Mary Edith, 1894, B. Ph., St. Paul, Minn., teacher in High School.
- Bennett, Henry C., 1890, B. A., 100 Washington street, Chicago, Ill., attorney-at-law.
- Bennett, Samuel E., 1890, D. V. M., Kansas City, Mo., Gov't Meat Inspector
- Bently, William Preston, 1885, B. Agr. (B. A. 1890, M. A. 1893, Bethany College) 15 Miller Road, Shanghai, China, missionary.
- Bertsch, Joseph Franz, 1896, LL. B., Columbus.
- Bibbee, George E., 1897, LL. B. (A. B., Ohio Wesleyan University), Columbus.
- Biebel, Herman Matthews, 1896, M. E. in EE., Chicago, Ill., electrical engineer with Western Electric Co.
- Bischoff, John Wallace, 1899, E. M., Elk Garden, W. Va.
- Bissing, William, 1893, M. E. in EE. (A. B., John's Hopkins University), Washington, D. C., examiner in U. S. patent office.
- Blackburn, Frank H., 1896, M. E. in EE., Tres Piedras, N. M., Supt. Buckeye Mica Mining Co.
- Blaire, Edward Grey, 1895, G. Ph., Shawnee, pharmacist.
- Blakiston, Anna Houston, 1897, B. Ph., Mrs. Powell, Pittsburg, Pa.
- Blakiston, Mary, 1893, B. Ph., Columbus, teacher in East High School.
- Blinn, Ray S., 1893, B. S.
- \*Bloom, Edwin M., 1893, B. Sc., died, 1894.
- Bloom, J. George, 1889, C. E., Cincinnati, assistant engineer B. & O. S. W. Ry
- Bloomfield, Lloyd Morris, 1891, B. Agr.

- Bock, Harrison W., 1898, LL. B., 1899, B. Ph., Canton.
- Bockius, Harry Graham, Ph. B. (Yale University), 1899, LL. B., Canton.
- Bodman, Mary E., 1898, B. Ph., Bement, Ill.
- Boesche, Felix John, 1896, G. Ph., New Bremen.
- Boesel, Frank Tilden, 1896, B. Ph., student, Harvard Law School.
- Bogue, Ernest Everett, 1894, B. Sc. H. & F., 1896, M. Sc., Professor of Botany and Horticulture, Agricultural and Mechanical College, Norma, Okla.
- Bond, Charles Grosvenor, 1899, LL. B., Columbus.
- Bone, John H., 1893, B. Sc., 1896, B. Sc. (Agr.), assistant in Agriculture, Agricultural and Mechanical College, Norma, Okla.
- Booth, Lucy Adelaide, 1892, M. A. (B. A., Ohio Wesleyan University), 1894, Ph. D., Columbus.
- Bope, George W., 1897, LL. B., Columbus, third assistant director of Law.
- Bower, Jerome G., 1897, M. E., Dennison, P., Ft. W. & C. R. R.
- Bownocker, John A., 1889, B. Sc., 1897, D. Sc., Columbus, associate professor in Inorganic Geology, State University.
- Boyd, Emma, 1888, B. Ph., 38 W. Woodruff ave., Columbus, teacher in the North High School.
- Boyd, James G., 1897, D. V. M., Columbus.
- Boyd, James Ellsworth, 1891, B. Sc., Columbus, assistant professor of Physics, State University.
- Boyd, Martin L., 1897, LL. B., Columbus.
- Bradford, Ernst, 1892, G. Ph., S. Garfield ave., Columbus, chemist.
- Bradford, Joseph Nelson, 1883, M. E., 54 West Tenth ave., Columbus, associate professor of drawing, State University.
- Brand, Harry Frank, 1896, B. Ph., 1897, LL. B., Worthington.
- Brandt, James Herbert, 1899, B. A., Greencastle.
- Brandt, Ulysses Sherman, 1895, B. A., Canal Winchester, superintendent schools.
- Braun, Joseph G., 1897, G. Ph., Columbus.
- Brelsford, Harley, 1898, B. Ph., Christiansburg.
- Brewer, Charles Reed, LL. B., Bowling Green.
- Brewer, John Whitney, 1896, G. Ph., Columbus.
- Britton, John Carr, 1898, B. Sc. (Agr.), Columbus.
- Brier, Harvey E., 1890, D. V. M., Tippecanoe City, veterinary surgeon.
- Bronson, Herman S., 1897, LL. B. (B. L., Cornell University), Columbus, attorney.
- Brophy, James Francis, 1899, E. M., Frostburg, Md.
- Brown, Frank, 1899, M. A. (A. B., Macalester College), Columbus, teacher in High School.
- Brown, Frederick W., 1888, E. M., Bellefontaine, superintendent Buckeye Portland Cement Co.
- Brown, Newton H., 1893, M. E. in EE., Newark, Del., professor of Electrical Engineering, Delaware College.
- Bruce, Charles A., 1895, B. A., Columbus, assistant professor of Romance Languages, State University.
- Brumley, David Joseph, 1895, C. E., Evansville, Ind., with L. & N. Ry.
- Bruning, Henry Dietrick, 1896, C. E., Pittsburg, Pa., engineer on P., C., C. & St. L. R. R.
- Buckman, Arthur Leslie, 1897, M. E. in EE., Central Union Telephone Co., Toledo.
- Buckman, Ola, 1895, B. Sc. (M. D., Cleveland University of Medicine and Surgery), Norwalk.
- Bunnell, Larone A., 1898, G. Ph., Waynesville.

- Burkett, Charles William, 1895, B. Sc. (Agr.), 1898, M. Sc. (Agr.), Durham, N. H., associate professor of Agriculture, New Hampshire State College.  
 Burkett, Dora Van Buren, 1897, B. Ph., Columbus.  
 Burns, James Ferguson, 1891, C. E., Hopkinsville, Ky., assistant engineer L. & N. Ry.  
 Burr, Harriett G., 1897, B. A., Worthington.  
 Butler, James Marion, 1894, LL. B. (A. B., Ohio Wesleyan University), Carmel.  
 Butterworth, William H., 1898, B. A., Columbus.  
 Bygate, Harry Goldsmith, 1899, M. E., Steubenville.  
 Byers, Clara, 1894, B. Ph., Mrs. Coles A. Raymond, Youngstown, O.

## C

- Cahen, Alfred, 1894, LL. B., Allegheny, Pa.  
 Calkins, George Herbert, 1895, M. E. in EE., with Gen. Electric Co. Testing Department, Schenectady, N. Y.  
 Calkins, William Bartlett, 1898, G. Ph., Columbus.  
 Callender, Sherman D., Ph. B. (Oberlin College), 1898, LL. B., 326-330, The Nasby, Toledo, attorney.  
 Canfield, Charles H., 1897, D. V. M., Akron.  
 Canfield, Dorothea Francis, 1899, B. Ph., graduate student, College de France, Paris.  
 Canfield, Leander Randall, 1896, B. Ph., Chardon.  
 Capron, Marshall Fremont, 1888, M. E., Kenton, architect.  
 Carr, Hugh Stanley, 1896, M. E. in EE., Sandusky, chief electrical engineer, Warren Electric Mfg. Co.  
 Carr, James Gray, 1897, B. A., Coshocton.  
 Carroll, Patrick Henry, 1894, E. M., Houtzdale, Pa.  
 Carroll, William Hunt, 1894, LL. B., Wilmington.  
 Carson, Samuel King, 1895, M. E. in EE., M. D. (Ohio Medical University), New York City.  
 Cathcart, Josephine M., 1888, B. Sc., 1131 Cedar avenue, Cleveland, accountant.  
 Catlin, Homer Clark, 1896, C. E., Toledo, Toledo Bridge Co.  
 Canaga, George Orlando, 1895, LL. B. (B. A., Scio College).  
 Cartwright, Henry Gilroy, 1895, LL. B.  
 Cellarius, Frederick Julius, 1888, C. E., Dayton, civil engineer.  
 Chamberlain, Helena, W., 1884, B. A., Mrs. Ellis Lovejoy, Union Furnace.  
 Chalmers, Agnes Florida, 1895, B. Ph., Bay City, Mich., teacher in High School.  
 Chappell, Walter Evans, 1898, M. E. in EE., first-class electrician, U. S. S. *Chicago*.  
 Charters, William Filson, 1887, B. Ph., Sidney, tax inquisitor.  
 Cherryholmes, W. K., 1881, B. Sc., M. D., Hamilton, physician.  
 Cilley, Raymond, 1896, C. E., Cincinnati.  
 Clark, Alexander B., A. B. (Yale University), 1899, LL. B., Canton.  
 Clark, Clarence J., 1899, C. E., Wilberforce.  
 Clawson, Clarence Alfred, 1899, B. Sc. (Agr.), Okena.  
 Clay, Albert Arlington, 1893, LL. B. (B. A., Tri-State Normal College), Hicksville.  
 Claypoole, Bessie Smith, 1895, B. Ph., Columbus, student.  
 Claypool, Charlotte Lake, 1892, B. Ph., Columbus.  
 Clements, Frank Orville, 1899, M. Sc. (M. A., Otterbein University), Westerville.  
 Clum, George V., 1893, B. A., Mendota, Ill., president of Mendota College.  
 Clum, Harry Ernest, 1899, B. Ph., Westerville.



- Cockins, Edith D., 1894, B. A., Columbus, registrar, State University.
- Coddington, Edwin F., 1896, C. E., 1897, M. Sc., fellow in Astronomy, Lick Observatory, Mount Hamilton, California.
- Cole, George Nathan, 1891, M. E. in EE., Chicago, Ill., 112 Clark street.
- Cole, Marietta C., 1897, B. Ph., Columbus.
- Collins, Curtis, 1895, M. E. in EE., Boston, Mass., engineer Meter Department General Electric Co.
- Coney, William Hawks, 1894, B. Sc., Honolulu, S. I.
- Connell, Laura Jewell, 1896, B. Ph., Columbus, teacher of German.
- Connell, William A., 1886, E. M., Kansas City, Mo., teacher Manual Training School.
- Converse, Edward Joseph, 1886, B. A. (B. D., Yale University), Columbus, assistant pastor, First Congregational Church.
- Converse, Howard Pendleton, 1887, B. Sc., 166 Devonshire street, Boston, Mass., manager Boston office Cooper, Hewitt & Co., steel and iron manufacturers.
- Converse, Walter, 1899, B. A., Plain City.
- Conway, Hugh Lawrence, 1896, C. E., Springfield.
- Cope, Albert N., 1897, M. E. in EE., Columbus, foreman Columbus Street R. R.
- Corner, Florence, 1897, B. Ph., Columbus.
- Corns, Harry, 1897, B. A., Columbus, teacher in Central High School.
- Corwin, Edwin E., 1880, B. A., Columbus, attorney-at-law.
- Cotes, Albert E., 1897, B. Sc., Columbus, medical student, Ohio Medical University.
- Coursalt, Ida May, 1899, B. Ph., Columbus.
- Coursalt, Jessie H., 1893, B. A., 1898, M. A., Columbus, teacher in Central High School.
- Covell, Vernon Royce, 1895, C. E., Pittsburg, Pa., county engineer's office.
- Craig, Moses, 1889, B. Sc. (M. S., Cornell University, 1890), 1896, M. Sc. (H. & F.), Agricultural and Mechanical College, Corvallis, Oregon.
- Cratty, John Mason, 1897, B. Sc., Cincinnati, chemist.
- Crawford, Ira, Jr., 1893, LL. B. (B. S., Denison University), Dayton.
- Crawford, William Sterling, 1888, B. Ph.
- Cromley, Alva M., 1897, G. Ph., Toledo, pharmacist.
- Crooks, Charles Melvis, 1892, B. A. (B. D., Harvard University, 1896), Colerain, Mass., pastor Congregational church.
- Crowner, Delbert Alonzo, 1896, B. Sc. (Agr.).
- Cummins, Henry Rollins, 1891, G. Ph., Hunter street, Columbus.
- Cunningham, Arthur, 1880, B. A., 107 Lincoln street, Columbus, book-keeper.
- Cunningham, Edward Walter, 1894, C. E., 1718 Indiana avenue, Chicago, Ill., U. S. engineer's office.
- Cunningham, George S., 1886, B. Ph., LL. B., Lancaster, attorney-at-law.
- Cunningham, John Ferguson, 1897, B. Sc. (H. & F.), 1899, M. Sc. (H. & F.), Columbus, assistant in Horticulture, State University.
- Curtis, Leigh Goodrich, 1899, C. E., Hamilton.

## D

- Daily, Henry G., 1892, D. V. M., Wooster, veterinary surgeon.
- Dally, John Randolph, 1899, LL. B., Centerburg.
- Damron, Carson W., 1897, M. E., Columbus, Jeffrey Mfg. Co.
- Daniels, David Edwin, 1893, LL. B. (B. Ph., Denison University), 1896, I U. M., Columbus.
- Davenport, Adrian E., 1897, B. A., Columbus.



- Davidson, David Millen, 1894, B. A.  
 Davidson, George Edwin, 1899, LL. B., East Liverpool.  
 Davies, Jennie C., 1897, B. Ph., Columbus.  
 Davies, John Lodwick, 1894, LL. B., Minneapolis, Minn., attorney-at-law.  
 Davis, Charles William, 1894, E. M., Colorado Springs, Col., teacher in High School.  
 Davis, Oscar Allen, 1897, M. E. in EE., Sistersville, W. Va., engineer, Carter Oil Co.  
 Deahl, Walter Smith, 1896, C. E., Pittsburg, Pa.  
 Deardurff, Carl Mason, 1895, B. A.  
 DeLamater, Clayton William, 1884, A. B., LL. B., Omaha, Neb., attorney-at-law.  
 DeLoffre, Andre, 1896, M. E. in EE., Schenectady, N. Y., Engineering Department General Electric Co.  
 DeLoffre, Samuel Middleton, 1895, B. A.  
 Dennis, Jerry, 1892, LL. B., 1893, LL. M., Columbus, attorney-at-law.  
 Derby, Florence Harlow, 1896, B. Ph., Columbus, graduate student, State University.  
 Detmers, Fredericka, 1887, B. Sc., 1891, M. Sc., 1215 Neil avenue, Columbus, teacher.  
 Devol, William Stowe, 1886, B. Agr., Riverside, Cal.  
 Dice, Jesse Peck, 1898, LL. B., Akron.  
 Dickinson, Thomas Herbert, 1899, B. Ph., Columbus.  
 Diemer, Hugo, 1896, M. E. in EE., Norwood, Cincinnati, manager Cost Department Bullock Electric Co.  
 Dietrich, Charles Henry, 1878, B. Sc., with American Book Co., general manager for Kentucky.  
 Dietrich, George C., 1898, B. Ph., Groveport, Principal of High School.  
 Doan, Frank C., 1898, B. Ph., Boston, Mass., graduate, Harvard University.  
 Doney, Carl Gregg, 1891, B. Sc., 1893, LL. B., Delaware, pastor M. E. church.  
 Donham Maurice, 1896, M. E., Buffalo, N. Y., Buffalo Forge Co.  
 Donham, William W., 1882, B. Sc.  
 Dresbach, Melvin, 1897, B. Sc., Columbus, fellow in Physiology, State University.  
 Dun, George William, 1884, B. Sc., Columbus, business manager "Columbus Citizen."  
 Dun, John J., 1883, E. M., Fifteenth avenue, Columbus, consulting engineer.  
 \*Dun, Walter Angus, 1878, B. Sc., M. D., died November 7, 1887.  
 Dungan, Irvine Laird, 1892, B. Ph., Cincinnati, Lane Theological Seminary.  
 Dunlap, Thaddeus Cox, 1895, M. E. in EE., consulting engineer, 8 W. Seventh street, Chattanooga, Tenn.  
 Dunlap, William Renick, 1895, B. Sc., Kingston, farmer.  
 Dunnick, Edward, 1897, C. E., Columbus, New Columbus Bdg. Co.  
 Duvel, Joseph W. T., 1897, B. Sc., Wapakoneta.  
 Dye, Clair Albert, 1891, G. Ph., student, in Germany.

## E

- Eagleson, Grace, 1897, B. Ph., Columbus.  
 Early, Franklin E., 1893, D. V. M.  
 Easterday, Charles Todd, 1891, G. Ph., Wellston, druggist.  
 Edwards, Mary Winifreda, 1897, B. A.  
 Egbert, Knott C., 1890, B. Agr., Yainax, Oregon, Supt. Indian Boarding School.  
 Eisenlohr, Berthold A., 1898, B. Ph., Cincinnati.

- Ellis, Charles, 1898, D. V. M., 3230 Locust street, St. Louis, Mo., veterinarian.  
 Emery, Peyton Randolph, 1893, LL. B., London.  
 Emery, Vernon Judson, 1887, B. A. (A. M., University of Nebraska), Cleveland, assistant professor of Latin, Western Reserve University.  
 Erf, Oscar, 1899, B. Sc. (Agr.), Monroeville.  
 Erskine, John H., 1886, E. M., Lowellsville, fire brick manufacturer.  
 Estep, Frank Leslie, 1898, M. E. in EE., Alliance, draughtsman, Morgan Engineering Co.  
 Evans, Ernest, 1892, B. Sc., Mingo Junction, chemist, Laughlin Junction Steel Co.  
 Evans, Peter Platter, 1892, C. E., Boston, Mass., with King Bridge Co.  
 Evans, William Lloyd, 1892, B. Sc., 1896, M. Sc., Colorado Springs, Col., teacher of chemistry in High School.  
 Eysenbach, Ernest E., 1896, E. M., Columbus, superintendent Columbus Gas Co.

## F

- Fairchild, Harmon Scott, 1894, LL. B., Springfield.  
 Färber, Charles Harker, 1894, B. A., Columbus, with State Savings Association  
 Fassig, Oliver L., 1882, B. Sc., Baltimore, Md., instructor in Climatology, Johns Hopkins University.  
 \*Fay, Frederick Willis, 1882, B. A., B. Arch., died August, 1892.  
 Fay, Mona, 1897, B. Ph. (Mrs. Eugene Gee), Wheeling, W. Va.  
 Feicht, Russell Stimson, 1890, M. E. in EE., Engineering Department Westinghouse E. & M. Co., Pittsburg.  
 Feiel, Ida Louise, 1898, B. Ph., Columbus.  
 Fenner, Jessie Albertus, A. B. (Wittenberg College), 1898, LL. B., Shiloh.  
 Fergus, Guy Carlton, 1898, M. E. in EE., partner in Zanesville Electrical Co.  
 Fergus, John Franklin, 1892, LL. B., Columbus, attorney-at-law.  
 Finley, Harry Marshall, 1894, B. A., McConnellsville, principal of High School.  
 Fischer, Julius H. R. Paul, 1891, B. Agr., D. V. M., professor of Veterinary Medicine, Manhattan, Kas.  
 Fischer, Robert, 1895, G. Ph., 1896, M. Ph., 1898, B. Sc., Columbus, fellow in Chemistry, State University.  
 Fischer, Walter, 1897, B. Sc., Columbus.  
 Fish, Fred Alan, 1898, M. E. in EE., Columbus, assistant in Electrical Engineering, State University.  
 Fisher, Clara, 1886, B. A., Mrs. J. Porter Milligan, Columbus.  
 Fisher, Georgietta, 1895, B. A., teacher in High School, Ottumwa, Iowa.  
 Fitzgibbon, James Robert, 1894, LL. B., Newark.  
 Fitterer, John Conrad, 1898, B. Sc., Butler.  
 Flickinger, George A., 1898, B. Sc. (Agr.), York.  
 Floto, Julius, 1889, E. M.  
 Flynn, Benjamin H., 1898, C. E., Columbus, with State Board of Health.  
 Flynn, Harry Franklin, 1892, C. E., Washington, D. C., U. S. Geodetic and Coast Survey.  
 Flynn, Maud, 1896, B. Sc., Columbus, student, Columbus Normal School.  
 Flynn, Oscar Rodgers, 1896, B. Sc., teacher in High School, Columbus.  
 Foley, William J., 1894, D. V. M., Lexington, Ky.  
 Ford, Ruth L., 1898, B. A., Ashtabula, teacher in High School.  
 Ford, Stanley Hamer, 1898, B. Ph., 1st Lieut. in U. S. Army.  
 \*Forgy, Ralph Morris, 1896, B. Ph., died March, 1899.  
 Foster, Dudley Hampton, 1895, B. Ph., LL. B., attorney-at-law, Corning.

- Foster, Frank McMillan, 1894, M. E. in EE., with John N. Poage, Cincinnati, manufacturer water columns and valves.
- Foster, Israel Moore, 1898, LL. B., Athens.
- Foulk, Charles William, 1894, B. A., student, in Germany.
- Fowler, Harry R., 1894, M. E. in EE., Toledo, electrical contractor.
- Fox, Charles P., 1890, B. Agr., 1895, M. Agr., Columbus.
- Fox, Frederick Hugh, 1896, B. Ph., McConnellsville.
- Fox, John Herbert, 1897, M. E., Cleveland, Brown Hoisting Machine Co.
- Francis, Edward, 1894, B. Sc., M. D. (Ohio Medical College), Washington, D. C.
- Francis, Mark, 1887, D. V. M., College Station, Brazos Co., Tex., professor of Veterinary Medicine, Agricultural and Mechanical College.
- Frankenberg, John Theodore, 1899, M. E., in EE., Columbus.
- Fravel, George B., 1888, M. E., Indianapolis, Ind., assistant Master Mechanic, Pan Handle shops.
- Frayner, Lee Ambrose, 1896, M. E., Columbus, Columbus Machine Co.
- Freeman, Stanton Sholes, 1898, E. M., Columbus.
- French, Thomas Ewing, 1895, M. E., Columbus, assistant professor of drawing, State University.
- Fritchle, Oliver Parker, 1896, B. Sc., Mt. Hope.
- Fulmer, Edward L., 1897, B. Sc., 1898, M. Sc., Mitchell, S. D., University of South Dakota.
- Fullerton, Charles Haywood, 1898, B. Ph., Wheelersburg.

## G

- Gains, Charles E., 1889, B. Ph., London, physician.
- Galbraith, John Howard, 1883, B. Ph., Oak street, Columbus, journalist.
- Gale, Cora C., 1893, B. Ph., Columbus.
- Gale, Franklin Henry, 1893, LL. M. (LL. B., University of Michigan), Columbus.
- Gallen, William Francis, 1897, M. E., Columbus, Columbus Machine Co.
- Game, Reed Haskell, 1896, B. Ph., 1899, LL. B., Columbus.
- Gamper, Herman, 1899, M. E., Columbus.
- Garber, Alberta D., 1889, B. Ph., A. M., Boston, Mass.
- Garber, John Murray, 1897, C. E., Columbus, New Columbus Bdg. Co.
- Garber, Levi L., 1898, B. A., Belleville.
- Garst, William Augustus, A. B. (Otterbein University and Harvard University), 1898, LL. B., Westerville.
- Gee, Eugene C., 1897, M. E. in EE., Wheeling, W. Va., with Telephone Co.
- Gehrkins, Edward Frederick, 1894, M. E. in EE., Schenectady, N. Y., with General Electric Co.
- Geissinger, James Allen, 1895, B. A., Cincinnati.
- Genheimer, Eli Thomas, 1896, B. Ph., Portsmouth, teacher in High School.
- Genheimer, William F., 1897, LL. B., Portsmouth, attorney.
- Gibbs, George C., 1893, B. A., Columbus, with Green, Joyce & Co.
- Given, James Byron, 1896, M. E. in EE., 224, 22d street, Chicago, Ill., President Given Supply Co.
- Givens, Newton Edgar, A. B., 1896, LL. B., Waverly.
- Glover, Sioux, 1882, B. Sc., Mrs. Horton, Errid, Pa.
- Goddard, Loring Hapgood, 1892, C. E., Sullivan, Ind., farmer.
- Good, Paul Revere, 1899, B. A., Westerville.
- Goodell, Ralph Spencer, 1892, C. E., Mt. Vernon, Mt. Vernon Bridge Co.
- Goodman, Joseph Clarence, 1896, LL. M., Columbus.
- Goodman, Sylvester Jacob, 1896, G. Ph., Columbus, student, Ohio Medical University.

- Gordon, Adelaide Cummins, 1896, B. Ph., Columbus.
- Graham, Emery Eugene, 1898, M. E. in EE., Alliance, Morgan Engineering Co.
- Grandle, Frank Albert, 1891, G. Ph.
- Grate, Charles Artemis, 1898, M. E., Akron, Adamson Machine Co.
- Graves, William L., 1893, B. A., 1897, M. A., assistant professor in Rhetoric, State University.
- Gray, Genevieve, 1898, B. Ph., Columbus.
- Gray, James Collam, 1892, LL. B., 1893, LL. M., Pittsburg, Pa., attorney P. R. Ry.
- Green, Charles C., 1885, B. Sc., M. D., Beaver City, Neb., physician.
- Green, Jerome Joseph, 1893, M. E. in EE., Notre Dame, Ind., Notre Dame University, professor of Physics and Elec. Engineering.
- Green, Joseph Fairst, 1899, M. E. in EE., Dayton.
- Green, Robert Lee, 1892, G. Ph., New York City.
- Gregg, Frank B., 1889, B. Ph., M. D.
- Gregory, Hiram D., 1880, E. M., attorney-at-law, Grayson, Ky.
- Griffin, Mark H., 1897, M. E. in EE., Xenia, electrical engineer, Soldiers' and Sailors' Orphans Home.
- Griffin, Theodore L., 1889, B. Sc., M. Sc., Columbus, chemist.
- Griffith, David Mathias, 1896, LL. B., Kecksburg, Pa.
- Griffith, Wellington John, 1892, LL. B., Tiffin.
- Griffiths, Benjamin Lincoln, 1898, LL. B., Vaughnsville.
- Grimsley, George Perry, 1890, B. A., 1891, M. A. (Ph. D., Johns Hopkins University, 1894), Topeka, Kan., professor Natural History, Washburn College.
- Griswold, Lawrence William, 1892, B. A., New York City, London Assurance Co.
- Groff, Orsylla Ann, 1894, G. Ph., North High street, Columbus, pharmacist.
- Groff, Warren Noble, 1896, B. A., 1899, LL. B., Tiffin.
- Groves, John Wesley, 1898, C. E., Batavia.
- Gruen, Francis William, 1899, B. Ph., 1899, LL. B., Cincinnati.
- Guerin, Martha, 1896, B. Ph., Columbus.
- Gugle, George Linville, 1896, LL. B., Columbus, attorney.
- Gugle, Marie, 1897, B. A., Alexandria, Ind., teacher.
- Guittard, Virgil, 1894, B. Sc., New Bedford.
- Guitteau, William B., 1897, B. Ph., Toledo, teacher in High School.
- Guss, Sherman Hamlin, 1892, B. A., Clarksburg, W. Va., principal of the colored schools.

## H

- Haas, Frank, 1895, C. E., 1896, E. M., Columbus.
- Hagler, Howard, 1889, B. Sc., Washington, C. H., farmer.
- Haigler, Charles Edmund, 1898, B. Sc., Jeffersonville.
- Hale, Frederick James, 1898, M. E., Columbus, fellow and laboratory assistant in Mechanical Engineering, State University.
- Hall, Harry R., 1889, E. M., Dunbar, Pa., assistant general manager Dunbar Furnace Co.
- Halterman, Oscar Elmore, 1895, LL. B., B. S. (National Normal University).
- Hamilton, Charles R., 1893, B. A., Zanesville, Dun's Commercial Agency.
- Hamilton, Frank Alexander, 1895, D. V. M., Dubois, Pa., veterinary surgeon.
- Hammond, Bessie B., 1897, B. Ph., Columbus.
- Hammond, Rose Lyttle, 1896, B. Ph., Columbus, teacher.
- Hancock, David R., 1889, G. Ph., M. D.
- Haney, Thomas Carlyle, 1894, G. Ph., Columbus, pharmacist.
- Hannum, William Hamilton, 1897, B. A., Columbus.



- Harbage, Arnett, 1893, D. V. M., West Jefferson, farmer.
- Harlor, John David, 1895, B. A., Columbus, teacher in Central High School.
- Harris, Charles Pearl, 1899, B. Ph., West Liberty.
- Harris, Frank Laverne, 1894, LL. B. (Ph. B., Tri-State Normal University),  
Payne.
- Harris, Walter Conger, 1893, B. Sc., 68 W. Thirty-fifth street, New York, with  
Art Department of Herald.
- Harrison, Warner, 1892, LL. B., East Town street, Columbus, attorney and  
solicitor C., A. & C. Railway.
- Harrison, William Henry, 1885, C. E., Anaconda, Montana.
- Harrold, Ernst Ellwood, 1895, G. Ph., dispenser chemical store-room, State  
University.
- Harrop, Herbert Bailey, 1898, B. Sc., Columbus.
- Hartsough, William H., Jr., 1898, B. Ph., Columbus.
- Hartwell, Arthur, 1888, M. E., Chicago, Ill., manager Chicago office Westing-  
house E. & M. Co.
- Hartwick, Louis M., 1897, M. E., Springfield, chief draughtsman for Foos Gas  
Engine Co.
- Harvey, Arlington Corylle, 1896, B. Ph., 1897, M. A., 1899, LL. B., Columbus.
- Harvey, Emory Wayland, 1896, B. Ph., Cleveland, teacher.
- Harvey, Florence Danford, 1898, B. Ph., Mt. Perry.
- Harvey, Sherman Lee, 1896, G. Ph., Harrisburg.
- Hassler, Robert Hanich, 1892, M. E. in EE., electrical engineer, Indiana Bicycle  
Co., Indianapolis, Ind.
- Hastings, Edwin George, 1898, B. Sc., Madison, Wis., student, University of  
Wisconsin.
- Hayes, Seth, 1892, B. Sc., Fremont, principal of High School.
- Hayward, George E., 1893, C. E., New Philadelphia, engineer, C., L. E. &  
W. Ry.
- Hazelton, Bird, 1898, B. Ph., New Straitsville.
- Hazlett, Robert, Jr., 1887, C. E., Wheeling, W. Va., consulting engineer.
- Heacock, William Preston, 1898, LL. B., Cardington.
- Heath, Arthur T., 1887, G. Ph., Harbor, analytical chemist, consulting engineer  
and contractor.
- Hebble, Charles Roy, 1896, M. E. in EE., Cincinnati, electrical engineer.
- Hedges, Harry, 1888, B. A.
- Heller, Albert Henry, 1890, C. E., Youngstown, Youngstown Bridge Co.
- Henderson, Adelbert Andrew, 1898, C. E., Columbus, city engineer corps.
- Henretta, Charles Michael, 1896, E. M., Buffalo, engineer J. W. Ellsworth  
Coal Co.
- Herbert, Charles T., 1897, LL. B., Columbus, attorney.
- Herms, Edith S., 1898, B. Ph., Portsmouth.
- Herrick, Louise, 1893, B. A. (Mrs. Harry Abbott), Columbus.
- Hertner, John H., 1899, M. E. in EE., Dayton.
- Hess, Florence Louise, 1895, B. Ph., Columbus.
- Hewitt, Strafford Reaves, 1898, M. E. in EE., Columbus Belting and Packing Co.
- Hiatt, William Arthur, 1895, B. Ph., New York City, teacher in Stevens School,  
Hoboken, N. J.
- Higbee, Charles E., 1883, B. Sc.
- High, Odessa, 1896, B. A., West Jefferson.
- Hill, Frank E., 1886, B. Sc., M. D., Muncie, Ind.
- Hill, I. T. Reynolds, 1896, B. Sc. (H. & F.), Berlin Heights.
- Hine, James S., 1893, B. Sc., Columbus, assistant professor of Entomology, State  
University.

- Hine, Lucius A., 1888, E. M., 140 50th street, Chicago, Ill., manufacturer of light casting, etc.
- Hipple, John Merton, 1898, M. E. in EE., Turtle Creek, Pa., inspector Westinghouse E. & M. Co.
- Hirsch, Gustav, 1897, M. E. in EE., Washington, 2d Lieut. U. S. N. Signal corps.
- Hoel, Sarah Elizabeth, 1893, B. Sc. (Mrs. W. M. Mills), North Tonawanda, N. Y.
- Hoffman, Arthur Sullivant, 1897, B. A., Coshocton, teacher in High School.
- Homan, Frank, 1895, C. E., New Straitsville, chief engineer, C. H. H. C. & I. Co.
- Hood, Sherman, 1894, B. Sc., Meander, gardner.
- Hoover, Frederic Roland, 1899, B. Ph., Columbus.
- Hopkins, Charles Delnow, 1893, LL. B. (B. A., Ohio Wesleyan University), Athens.
- Horton, Henry Pomeroy, 1889, B. Ph.
- Houseman, Ruth U., 1897, B. Ph., Painesville, teacher in High School.
- Houston, Anna Christine, 1892, B. Ph., 1895, M. A., Marysville.
- Hovey, Clark Samuel, B. A. (Buchtel College), 1898, LL. B., Akron.
- Howald, Ferdinand, 1878, B. Sc., Rush Run, W. Va., manager of mining operations.
- Howard, A. B., 1883, B. Ph., Jackson, Miss., clergyman.
- Howard, Curtis C., 1878, B. Sc., M. Sc., 115 Jefferson avenue, Columbus, professor of Chemistry in Starling Medical College.
- Howard, Fanny Fern, 1896, B. A., Columbus.
- Howard, Edward Davenport, 1894, LL. B., 1896, LL. M., Columbus, attorney.
- Howard, John Wilmot, 1895, B. Sc., Columbus, assistant secretary, Board of Trade.
- Howells, Thomas J., 1897, E. M., Martins Ferry.
- Hubbard, Ralph Newton, 1891, B. Sc., Columbus, Columbus Machine Co.
- Hughes, Raymond Mollyneaux, A. B. (Miami University), 1897, M. Sc., Miami University, professor of Chemistry.
- Huddleson, Don Carlos, 1897, G. Ph., Columbus, assistant in Gymnasium, State University.
- Huffman, Lillian Stuart, 1899, B. Ph., Columbus.
- Huggins, Burch Delaplaine, 1899, B. Ph., Hillsboro.
- Hull, Mary Louise, 1894, B. A. (Mrs. C. H. Farber), Columbus.
- Humphrey, J. Scott, 1879, B. Sc., Findlay, civil engineer.
- Humphreys, Leona, 1895, B. A., Plain City, teacher in High School.
- Hunt, William Franklin, 1887, M. E., attorney-at-law, New York Life Building, St. Paul, Minn.
- Huntington, Arthur, 1899, M. E., Columbus.
- Huston, Charles H., 1897, LL. B. (B. S., Tri-State College, Ind.), Mansfield.
- Hyde, Wilby Grimes, 1887, B. A. (LL. B., Cincinnati), Chillicothe, attorney-at-law.
- Hyle, Charles A., 1896, M. E. in EE., San Francisco, Weather Bureau.

## I

- Imes, Marion, 1899, B. Sc. (Agr.), Bashan.
- Ingram, Imogene, 1897, B. Ph., Columbus.
- Innis, Lyman H., 1893, B. A., 1895, LL. B., Columbus, attorney.
- Ireland, Guy Llewellyn, 1895, M. E., Cincinnati.
- Irvin, Chadwick H., 1897, M. E., Lima.

## J

- Jackson, Frank Pierce, 1892, LL. B., 1893, LL. M., Columbus, attorney.
- James, Florence May, 1896, B. A. (Mrs. Oscar R. Flynn), Columbus.
- Jeffrey, Maud Dorothy, 1895, B. Ph., assistant in library, State University.
- Jenkins, William B., 1893, C. E., Wilmington, Columbus and Athens Ry.
- Jenkins, Willis H., 1894, C. E., New York City, engineer.
- Jennings, Irvin G., 1899, LL. B., Zanesville.
- Jennings, Levi E., 1897, M. E. in EE., Eaton.
- Johnson, Charles W., 1896, M. E. in EE., Norwood, Cincinnati, chief draughtsman Bullock Electric Mfg. Co.
- Johnson, George Edward, 1892, C. E., N. & W. Ry., Kenova, W. Va.
- Johnson, Herbert Lincoln R., 1892, M. E. in EE., Cincinnati.
- Johnston, Frederick Symmes, 1899, B. Sc. (Agr.), Durham, N. H., assistant in Agriculture, New Hampshire State College.
- \*Jones, A. A., 1886, C. E., died May, 1894.
- Jones, Arthur James, 1898, M. E. in EE., Homestead, Pa., clerk, Carnegie Steel Works.
- Jones, Aaron Wesley, 1891, B. Sc., Columbus, Gardner Insurance Agency.
- Jones, Alexander Houston, 1895, M. E. in EE., St. Louis, Mo., with B. J. Percival, engineer.
- Jones, Benner, 1897, LL. B., Jackson.
- Jones, Daniel D., 1893, G. Ph., Gallipolis, pharmacist, Epileptic Hospital.
- Jones, Jesse Lee, 1890, B. A., Philadelphia, Pa., chemist, William Cramp & Sons, ship-builders.
- Jones, Paul, 1880, B. A., Columbus, attorney-at-law.
- Jones, Pearl N., 1892, M. E. in EE., Pittsburg, Pa., engineer and salesman, Westinghouse E. & M. Co.
- Jones, Smiley, 1894, E. M., Downieville, Cal., electrician, Gold Bluff mine.
- Jones, William Francis, 1896, D. V. M., Cincinnati, Miami Medical College.
- Judd, Horace, 1897, M. E., 1899, M. Sc., Columbus.
- Judkins, Clyde H., 1897, LL. B. (A. B., Scio College), Flushing.
- Junk, Harry Prior, 1895, LL. B., Columbus, attorney-at-law.

## K

- Keagle, Anna Brown, 1895, B. Ph., Columbus, teacher North High School.
- Keating, David Thatcher, 1899, B. Ph., Columbus.
- Keffer, Frederick, 1892, M. E., Anaconda, British Columbia, Supt. Boundary Creek Mining Co.
- Keifer, William White, 1886, B. A. (LL. B., Cincinnati), Springfield, attorney-at-law.
- Keiser, Romeo Orpheus, 1892, B. Sc., 1896, G. Ph., Columbus, assistant in Chemistry, Ohio Medical University.
- Kellerman, Ivy, 1898, B. A., 1899, M. A. (Cornell University), Ithica, N. Y., student, Cornell University.
- Kellicott, William E., 1898, B. Ph., Marysville, teacher in High School.
- Kellison, Edward Lafayette, 1897, B. Ph., Columbus, student in College of Law, State University.
- Kemmler, Edward A., 1888, C. E., 895 S. High street, Columbus, assistant city engineer.
- Kerr, Samuel Thompson, 1894, M. E. in EE., Martin's Ferry, superintendent Municipal Electric Light Plant.



- Kersey, William Rufus, 1899, M. A. (B. A., Earlham College), Columbus.
- Kershaw, Francis Stewart, 1891, B. Ph., Boston, Mass.
- Kershaw, Samuel Charles, 1892, B. Ph., Columbus, book-keeper, Columbus Bolt Works.
- Kester, Fred. Edward, 1895, M. E. in EE., Columbus, assistant in Physics.
- Kiesewetter, Louis Frank, 1891, C. E. (A. B., Harvard, '92, and A. M., '93), Columbus, assistant cashier Ohio National Bank.
- Kiler, Abdel William, 1896, G. Ph., druggist, Columbus.
- King, Robert James, 1899, B. A., Zanesville.
- Kirby, Harriet R., 1898, B. A., Columbus, teacher in North High School.
- Kirker, Harry L., 1889, B. Sc., Centreville, Idaho, electrician, Basic Co.
- Kiser, Katherine Daniel, 1895, B. A., Chicago, principal High School.
- Kline, Charles H., 1897, M. E. in EE., Dayton.
- Knauss, William Henry, 1895, B. Sc., student, Starling Medical College.
- Knecht, Arthur Edward, 1898, M. E., Cincinnati.
- Knight, Ruby Ray, 1895, B. Sc., Middleport.
- Knopf, Eva S., 1895, B. Ph., Columbus, teacher in North High School.
- Knopf, George W., 1883, B. Sc., Pittsburg, Pa., bridge builder.
- Kohr, Donald Alexis, 1898, B. Ph., Westerville.
- Krauss, Bertha Katherine, 1892, B. Ph., Ottawa.
- Kreiger, Charles Henry, 1887, G. Ph., Columbus, superintendent the Kauffman-Lattimer Co.
- Krumm, Charles S. M., 1896, B. Ph., 1898, LL. B., Columbus, attorney.
- Krumm, Herbert Zettler, 1898, B. Ph., Columbus.
- Krumm, Lillian Louise, 1895, B. Ph. (Mrs. Harry Rush Wilson), Columbus.
- Krumm, Louis Ralph, 1898, M. E. in EE., Engineering Department Central Union Telephone Co., Chicago, Ill.
- Krupp, William Emil, 1899, LL. B., Uhrichsville.
- Kuhn, Vallie Howard, 1896, M. E. in EE., Etna.
- Kuhn, Harry Waldo, 1897, B. Sc., graduate student, Cornell University.

## L

- Lamme, Benjamin G., 1888, M. E., Pittsburg, Pa., engineer, Westinghouse E. & M. Co.
- Lamme, Bertha A., 1893, M. E. in EE., Pittsburg, Pa., Westinghouse E. & M. Co.
- Landacre, Francis Leroy, 1895, B. A., assistant in Zoology and Entomology, State University.
- Landacre, Walter Alexander, 1891, G. Ph., Columbus, with Braun & Sons.
- Landis, Walter Victor Titus, 1895, B. Ph., Dayton.
- Lane, Quinton R., 1898, B. Ph., Canal Winchester.
- Large, Joseph H., 1890, C. E., Pittsburgh, Pa., assistant inspector of bridges, Pennsylvania Southwestern system.
- Laughlin, Hugh Clarence, 1890, B. A. (A. M., 1895, University of Nebraska), 1712 Bathgate avenue, New York, teacher in High School for Boys and Girls.
- Lavery, William F., 1890, D. V. M., veterinary surgeon, State University.
- Lawrence, Arthur K., 1897, G. Ph., Columbus.
- Layton, Roy Everett, 1895, B. A., 1897, LL. B., Wapakoneta, attorney.
- Lee, Edwin S., 1893, G. Ph., Columbus, druggist.
- Lee, Robert M., 1897, M. E., Westinghouse Machine Co.
- Leffler, Edward Victor, 1896, G. Ph., Leipsic.
- Lehman, John Wesley, 1899, B. Ph., Canal Winchester.
- Lemert, Helen Ora, 1894, B. A., Columbus, teacher High School.



- Lentz, Alice B., 1897, B. Ph., Lloydsville.
- Lentz, Theresa, 1893, B. Ph., Bellaire, teacher in High School.
- Leonard, James Lincoln, 1893, LL. B. (B. S., Ohio Normal University), Welcome.
- Levering, Orpheus D., 1893, M. E., Winchester, Mass., The McKay Metallic Fastening Association.
- Lewis, Charles Montgomery, 1881, B. A., Columbus, with Columbus Evening Dispatch.
- Lewis, Thomas K., 1894, B. Sc., Columbus, assistant in drawing, State University.
- Lincoln, Paul Martyn, 1892, M. E. in EE., Niagara, N. Y., assistant superintendent Niagara Falls Power Co.
- Lindo, William C., 1896, C. E., Cleveland, O., "Nickle Plate" R. R., engineer.
- Linebaugh, Jesse J., 1899, M. E. in EE., Pleasant Corners.
- Linson, Irvin, 1882, B. A.
- Lisle, Dallas Gypsi, 1899, B. Ph., Columbus.
- Lisle, Leslie Mae, 1899, B. Ph., Columbus.
- Lisle, Leslie, Mac, 1899, B. Ph., Columbus.
- Logan, Lavallette Lasea, 1896, E. M., Scranton, Pa., professor National Correspondence School.
- Logsdon, Carey Ligonri, 1899, B. Ph., Columbus.
- Logsdon, Clement Jay, 1898, G. Ph., Columbus.
- Loomis, John Cooper, 1898, LL. B., Tiffin.
- Lott, Charles Milford, 1895, M. E. in EE., Paulding, superintendent Electrical St. & Power Co.
- Loveberry, Clarence, 1896, D. V. M., Minneapolis, Minn., government meat inspector.
- Lovejoy, Ellis, 1885, E. M., Union Furnace, chemist and superintendent Columbus Brick and Terra Cotta Co.
- Lovejoy, Jesse R., 1884, B. Sc., Schenectady, N. Y., with General Electric Light Co.
- Luce, George Ernest, 1897, LL. B. (A. B., Ohio Wesleyan University), Columbus.
- Luse, Clara E., 1897, B. Ph., Mrs. Herbert T. Scott, Columbus.
- Lusk, William Vinton, 1893, D. V. M., Ft. Wingate, New Mexico, veterinary surgeon, Ind. cavalry.
- Lydenberg, Walter B., 1898, B. A., Dayton.
- Lynas, Caroline, 1898, B. A., Columbus.
- Lynas, Charles E., 1898, B. A., Columbus.

## M

- Maag, Benjamin Franklin, 1899, M. Sc. (B. Ph., Wooster University), Mt. Eaton.
- MacGuire, Charles White, 1895, G. Ph., Toledo, student Toledo Medical College.
- Mackey, Ure LaVerne, 1893, M. E. in EE. (B. A., Wooster University).
- Magly, Robert A., 1897, G. Ph., Columbus.
- Magruder, Leonard Anthony, 1895, B. Ph., 1896, LL. M.
- Maier, John Valentine, 1895, LL. B. (B. S., Northern Indiana Normal University).
- Malone, William Ruskin, 1885, B. A., Toledo, with New York Life Insurance Co.
- Manecke, Gilbert, 1897, LL. B., Fostoria.
- Manley, Rush Emmett, 1894, M. E. in EE., manager of Exchange Central Union Telephone Co., Mt. Vernon.
- Mann, Wilber Edwin, 1899, B. Ph., Morrisville.
- Marple, Charles Allen, 1885, B. Sc., Louisville, Ky., teacher of Science, Male High School.
- Marquard, Frank Fred, B. L., 1896, C. E., Dayton.

- Marshall, George Sidney, 1894, B. Ph., 1897, LL. B., Columbus, attorney, Second Assistant Director of Law.
- Martell, Leonard Roland, 1898, B. A., Columbus.
- Martin, Edwin Dunlevy, 1891, B. Ph., Lee Centre, Ill., teacher.
- Martin, George, 1897, M. E. in EE., Massillon, Central Union Telephone Co.
- Martin, Percy, 1892, M. E. in EE., The Union Electric Co., 4 Frederick Wilhelm street, Berlin, Germany, electrical engineer.
- Marvin, Charles Frederick, 1883, M. E., Washington, D. C., U. S. Weather Bureau.
- Mason, George F., 1890, G. Ph., Minneapolis, Minn., pharmacist.
- Masters, George Albert, 1886, C. E., Toledo.
- Mathers, John Harrison, 1895, B. Ph., Conover.
- Mathias, Frederick W., 1893, B. Sc., Toledo, teacher High School.
- Matson, George H., 1882, G. Ph., 93 Lexington ave., Columbus, professor of Pharmacy, Ohio Medical University.
- Matson, William Edgar, 1896, M. E. in EE., Lynn, Mass., with General Electric Co.
- Mauer, George Clifford, 1892, D. V. M., Oak Harbor, veterinarian.
- Mays, James Wesley, 1897, B. Ph., Columbus, student in College of Law, State University.
- McAllen, William Johnson, 1894, C. E., Mt. Vernon, O., engineer.
- McCarter, Edward Bancroft, 1892, B. A., 1894, LL. B., Columbus attorney.
- McCarter, Flora, 1897, B. A., Columbus.
- McCarter, Robert Dale, Jr., 1895, M. E. in EE., Berlin, Germany, representing General Electric Co.
- McClelland, Chalmer Kirk, 1898, B. Sc. (Agr.), Andover.
- McCormick, J. H., 1880, M. E., Dayton, National Cash Register Co.
- McCormick, William Francis, 1896, M. E., Columbus.
- McCulloch, George Elmer, 1891, B. Sc.
- McDowell, John Andrew, 1882, B. Sc., 949 Neil ave., Columbus, cement engineer.
- McFadden, John Franklin, 1878, B. A., Columbus, attorney-at-law.
- McGregor, James Howard, 1894, B. Sc., New York, assistant in Zoology, Columbia University.
- McGrew, John Alexander, 1895, C. E., Cleveland, engineer, with Pennsylvania Railroad Co.
- McGuffey, Francis Hoyt, 1894, M. E. in EE., McGuffey, wholesale produce.
- McIntire, Alfred Heber, 1898, M. E. in EE., Columbus, fellow in Industrial Arts, State University.
- McLaughlin, Annis, 1897, B. Ph., Columbus.
- McLaughlin, James Audley, 1895, LL. B. (B. A., Monmouth College).
- \*McMakin, Amasa Brown, 1879, B. Sc., died May 22, 1891.
- McNary, George Bull, Jr., 1896, M. E. in EE., Toledo, with Bissel & Co.
- McPherson, William, 1887, B. Sc., 1891, M. Sc., 1895, D. Sc., Columbus, State University, professor of Chemistry.
- Mead, Clinton V., 1884, B. Ph., Denver, Col., attorney-at-law.
- Mead, Rollo Nooman, 1895, D. V. M., Grand Rapids.
- Mebs, George H., 1897, G. Ph., Columbus.
- Meek, Charles Wesley, 1894, LL. B., Toledo.
- Meek, Edward Duncan, 1896, B. A., 1899, M. A., Glencoe.
- Meek, William W., 1889, B. Ph., 121 Fifteenth ave., Columbus, J. W. Meek & Co.
- Mendenhall, Maurice H., 1893, D. V. M., West Elkton.
- Menough, Arthur George, 1894, E. M., Wellsville.
- Mercer, Frank Emmet, 1896, M. E. in EE., Wauseon.

- Merrill, Alice Louise, 1893, B. A., 6565 Yale ave., Chicago, Ill., Station O. teacher.
- Merrill, Charles Wesley, A. B. (Denison University), 1898, LL. B., 326-330 The Nasby, Toledo, attorney.
- Mershon, Ralph D., 1890, M. E., New York office Westinghouse E. & M. Co.
- Mesloh, Charles W., 1889, B. A., 1895, M. A., assistant professor of German, State University.
- \*Metters, Allen, 1896, B. A., died January 22, 1898.
- Metzger, Edward H., 1897, G. Ph., Circleville.
- Mickey, Blanche D., 1898, B. Ph., Columbus.
- Middlewart, Clarence Coulter, A. B. (Marietta College), 1898, LL. B., Constitution.
- Middleton, Ambrose, 1895, G. Ph., Lancaster.
- Miller, Carl James, 1898, B. Sc. (Agr.), Franklin.
- Miller, Charles C., 1883, B. A., Lima, superintendent schools.
- Miller, Daniel Elmer, 1890, G. Ph., Dayton, druggist.
- Miller, Frank Case, 1893, C. E., Columbus, assistant engineer C., S. & H., Short Line Division.
- Miller, Harry Franklin, 1889, M. E., McKeesport, Pa., constructing engineer, National Tube Works.
- Miller, Henry P., 1897, D. V. M., Sunbury.
- Miller, Walter McNab, B. Sc., 1885, Reno, Nev., professor of Anatomy and Physiology, State University.
- \*Milligan, James Porter, 1886, B. A., died, February, 1899.
- Mills, William C., 1898, B. Sc. (H. & F.), Columbus, curator Archæological collection, State University.
- Milne, Alexander, B. D. (Yale University), 1898, M. A., Duluth, Minn., pastor Pilgrim Congregational Church.
- Mix, Edward W., 1888, B. Sc., Paris, France, superintendent "Le Societi des Establishments."
- Mix, Melvin Noble, 1895, B. Ph., New York, The World, journalist.
- Mock, George Herbert, 1891, B. Sc., Ohio State Savings Bank, Columbus.
- Montgomery, Howard, 1896, B. Ph.
- Moodie, Alice Haynes, 1890, B. A., Mrs. Arthur Hartwell, Chicago, Ill.
- Mooney, Daniel Francis, 1894, LL. B., St. Mary's.
- Moore, Henry Curtis, 1897, B. Sc., Washington C. H.
- Moore, Virgil Owen, 1895, B. Sc., Columbus, student Starling Medical College.
- Morhart, Katherine Elizabeth, 1893, B. Ph., Pomeroy.
- Morrey, Annie Eliza, 1896, B. A., Chester Hill.
- Morrey, Charles B., 1890, B. A., 1896, M. D., Columbus, assistant professor Physiology, State University.
- Morrey, William T., 1888, B. A., New York City, teacher.
- Morris, Clyde T., 1898, C. E., Columbus, New Columbus Bdg. Co.
- Morrison, M. Frank, 1879, B. A., Mrs. S. H. Short, E. 9th ave., Cleveland.
- Morrison, Robt. O., 1893, C. E., Cincinnati, engineer on Little Miami R. R.
- Morton, George L., 1884, M. E. (LL. B., National Law School), chief examiner, patent office, Washington, D. C.
- Moses, Martha Allston, 1891, B. Ph., 1111 Hinman ave., Evanston, Ill., book-keeper.
- Moss, Blanche, 1898, B. A., Columbus.
- Moss, William, 1898, G. Ph., Buffalo.
- Moyer, Henry E., 1893, B. Sc., Youngstown, chemist, Youngstown Steel Co.
- Mull, Bert LaForrest, 1898, LL. B., Columbus.
- Mullay, Annie, 1887, B. Ph., Chicago, teacher.

- Mundhenk, Fred., 1896, B. Ph., Columbus, life insurance agent.  
 Mundhenk, Herbert C., 1899, B. Ph., Brookville.  
 Mundhenk, Ruth, 1899, B. Ph., Dayton.  
 Munn, Mortimer Adam, 1894, C. E., Springfield, engineer.  
 Munson, Theodore, 1898, B. Sc., Zanesville.  
 Murray, Claude R., 1895, B. A., Middleport, principal of High School.  
 Murray, Frank Erskine, 1892, D. V. M., Greenfield, veterinary surgeon.  
 Myers, Joseph Simmons, 1887, B. A., Pittsburg, Pa., editor Pittsburg Post.  
 Myers, Ord, 1895, M. E. in E.E., inspector Metropolitan St. Ry. Co., New York.  
 Myers, Roy V., 1893, C. E., Dayton, Tenn., mining engineer.  
 Myers, Uriah H., 1887, E. M., Allegheny, Pa., chemist, Marshall Kennedy Milling Company.

## N

- Nagel, William G., 1895, M. E. in E.E., Toledo, W. G. Nagel & Co., electrical supplies.  
 Needles, Mana R., 1890, B. Ph. (Mrs. Kilpatrick), Owosso, Mich.  
 Nettleton, Arthur Warren, 1898, B. Sc. (Agr.), Medina.  
 Newton, Henry S., 1889, B. Sc., Syracuse, N. Y., general manager Syracuse, Lakeside and Baldwinsville R'y.  
 Newton, Samuel Donald, 1895, C. E., engineer on Southern R. R.  
 Nichol, Gertrude Bell, 1899, B. Ph., Columbus.  
 Niewvahnner, John Henry, 1891, B. A., Jackson, assistant cashier, First National Bank.  
 Noble, W. F., 1879, B. A., Tiffin, attorney-at-law.  
 Nurian, Kerson, 1899, M. E., East Pittsburg, Pa.  
 Nutt, Arthur Chase, 1897, B. Ph., scholarship in Philosophy, Cornell University.

## O

- Obetz, Francis Henry, 1896, G. Ph., Columbus.  
 O'brine, David, 1881, B. Sc., M. Sc., E. M., D. Sc., M. D., Urbana, physician.  
 Odebrecht, August, 1895, G. Ph., Columbus, with H. Braun & Sons.  
 O'Kane, Sarah Eliza, 1891, B. Ph. (Mrs. F. M. Raymund), 215 W. Tenth ave., Columbus.  
 O'Kane, Walter Collins, 1897, B. A., Columbus, journalist.  
 Orton, Clara Gregory, 1897, B. Ph., Columbus.  
 Orton, Edward, Jr., 1894, E. M., Columbus, director of the department of Clay-working and Ceramics, State University.  
 Orton, Walter Edwin, 1899, LL. B., Williamstown, Mass.  
 Osborn, Samuel Galloway, 1897, LL. B., Columbus, attorney.  
 Osborn, Raymond Carroll, 1898, B. Sc., Columbus.  
 Ozias, Albert N., 1889, M. Sc., Racine, Wis., principal High School.

## P

- Pabodie, Robert Jewett, 1899, M. E., Wyoming.  
 Page, William Herbert, 1892, LL. B., 1894, LL. M. (B. A., Yale), Columbus, professor of Elementary Law, State University.  
 Palmer, Walter K., 1893, M. E., State University, Lawrence, Kas., professor of Mechanical Engineering.  
 Parker, John Bernard, 1898, B. A., Columbus, fellow in Rhetoric, State University.



- Patch, Homer Austin, 1896, C. E., Youngstown Bdg. Co.  
 Patchell, Owen P., 1889, B. Ph., Ardmore, Ind., attorney-at-law.  
 Patchin, Rufus Harry, 1898, LL. B., Chardon, attorney-at-law.  
 Payne, Halbert Edwin, 1887, M. E., 256 Broadway, New York City, American Typewriter Co.  
 Peal, Allen Saunders, 1895, B. A., Chicago, Ill.  
 Pearce, George Downer, 1892, G. Ph., Goshen, Ind., pharmacist.  
 Pearl, Allen Sexton, 1894, M. E. in EE., Chicago, Ill., salesman, Central Electric Company.  
 Pease, Edward Livingstone, 1895, B. A., 1899, LL. B., Columbus.  
 Pedlow, Edward Benjamin, 1893, C. E., New Straitsville, superintendent, Columbus and Hocking Coal and Iron Co.  
 Peppel, Samuel Vernon, 1899, B. Sc. (Chem.), Leetonia.  
 Pence, David Arrel, 1894, M. E., Lowellville.  
 Perkins, Earl Harley, 1893, LL. B., Wellington.  
 Peters, William Lincoln, 1885, M. E., Riverside, Cal., manufacturer.  
 Pfarr, Philip Lewis, 1896, B. Sc. (Agr.), Dennison, Iowa.  
 Phelps, Cyrus Alba, 1892, B. Sc., Sombereto, Jacataccas, Mexico, with Sombereto Mining and Milling Co.  
 Pierce, John Mattison, 1895, M. E. in EE., South Charleston.  
 Pilcher, Hastings Moore, 1895, M. E. in EE.  
 Plantz, Wyatt Garfield, 1894, B. A., Pomeroy.  
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 Plimmer, Gertrude Alice, 1896, B. Ph., Columbus.  
 Polk, Walter C., 1895, C. E., Indianapolis, Ind., assistant general foreman, Central Union Telephone Co.  
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 Pool, Harwood Redington, 1881, B. Ph., LL. B., 62 Cedar street, New York City.  
 Porter, Mary Baxter, 1897, B. Ph., Columbus.  
 Postle, Herman R., 1894, C. E., Columbus, teacher.  
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 Powell, Chas. S., 1893, M. E. in EE., Cleveland, representing Westinghouse E. & M. Co.  
 Powell, Edward Thompson, 1896, LL. B., Columbus, attorney.  
 Powell, Norman Clemson, 1895, D. V. M., Damascus.  
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 Price, Homer Charles, 1897, B. Sc. (Agr.), Newark, farmer.  
 Priest, Frederick, 1895, D. V. M., Newark, veterinary surgeon.  
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 Pugh, Lawrence Randolph Whetzel, 1893, B. Ph., 1895, LL. B., Columbus, attorney-at-law.  
 Pumphrey, John Homer, 1898, B. Sc., Clayton.  
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## R

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 Randall, Emilius Oviatt, 1892, LL. M. (B. Ph., Cornell University), Columbus, attorney-at-law, professor in Law School, State University.  
 Randolph, Edward S., 1897, LL. B. (A. B., Ohio Wesleyan University), Somerset.  
 Rane, Frank William, 1891, B. Agr. (1892, M. Sc., Cornell), Durham, N. H., professor of Agriculture and Horticulture, New Hampshire College.

- Rarick, Murray M., 1896, B. Sc. (Agr.), Columbus, student, Starling Medical College.
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- Rawson, Levi, 1899, C. E., Lisbon.
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- Raymond, Frank M., 1888, B. A., Columbus, attorney-at-law.
- Raymond, Maud, 1899, B. Ph., Columbus.
- Redick, Mary Glisson, 1898, B. Ph., Findlay.
- Reed, Robert Browning, 1896, M. E. in EE., Zanesville, electrical contractor.
- Reed, William Allen, 1897, E. M., Central City, Colo., assaying officers, Alsdorf & Paul.
- Reese, William Daniel, 1891, B. A.
- Reese, William Henry, 1896, G. Ph., Glen Roy.
- Reeves, Archibald C., 1887, C. E., 153 Superior ave., Dayton, civil engineer.
- Resler, Edwin D. (B. A., Otterbein), 1897, M. A., Westerville.
- Rice, Herbert A., 1897, C. E., Columbus, with Yost & Packard, architect.
- Rice, Mabel Elise, 1898, B. A., Columbus, student.
- Rice, Susan Esther, 1899, B. A., Columbus.
- Richardson, Hamilton Hutchinson, 1892, B. Agr., Brooklyn, gardener.
- Richardson, William Waddle, 1899, B. Ph., Massillon.
- Richey, Luzerne A., 1897, B. Ph., Denver, Col., attorney.
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- Riddle, Howard Sterling, 1897, M. E. in EE., Columbus, Jeffrey Mfg. Co.
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- Riggs, Ernest Jacob, 1895, B. Sc. (Agr.), M. Sc. (H. & F.), Angola.
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- Roach, Simeon Andrew, 1899, B. Ph., Chillicothe.
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- Robinson, Erdis Geroska, 1893, C. E., Mexico, D. F., Mexico, Engineering Department of Mexican Central Railway.
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## S

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 Sherman, Christopher Elias, 1894, C. E., Columbus, assistant professor in Civil Engineering, State University.  
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- Smith, Burton Griffin, 1895, G. Ph., Detroit, Mich., chemist for the Ray Chemical Co.
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- Sprague, Charles Franklin, 1896, B. A., 1899, LL. B., Wapakoneta.
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- Stull, Emmett Willet, 1894, M. E. in EE., Johnstown, Pa., draughtsman Motor Department The Lorain Steel Co.
- Stump, Franklin Pierce, 1892, B. Agr., Convoy, farmer.
- Stump, John William, 1895, C. E., County Engineer, Fairfield Co., Ohio.
- Stump, William Lisle, 1897, G. Ph., 1898, M. Ph., Nashport.
- Surface, Harvey Adam, 1891, B. Sc., 1892, M. Sc.
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## T

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- \*Taylor, Francis Asbury, 1885, B. A., died July 25, 1891.
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- Teter, Anstie Welsh, 1896, G. Ph., Springfield.
- Thomas, James O., 1897, C. E., Columbus.
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- Thompson, Howard N., 1888, B. Ph., Washington, D. C., correspondent Associated Press.
- Tomlinson, James Rowe, 1892, C. E., Youngstown Bridge Co.
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- Twiss, Marion Evans, 1897, B. A., Columbus, State Library.

## U

- Uncles, Margaret Anna, 1897, B. A., Columbus.
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## V

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- Voorhees, Isaac M., 1894, B. Ph., Cadiz, journalist, editor of "Harrison News."
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- Warren, Grant Alexander, 1894, LL. B.
- Watson, Bensen Gruber, 1896, B. Ph., Columbus, attorney.

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- Webber, Karl T., 1897, LL. B., Columbus, attorney.
- Weick, Charles William, 1898, B. Sc. (Ind. Arts), Columbus, assistant in Industrial Arts and instructor in Pattern-making and Founding.
- Weidner, George F., 1887, G. Ph., Columbus, Kauffman-Latimer Co.
- Weinland, Edgar Lynn, 1893, LL. B. (B. Ph., Otterbein University), Columbus, attorney.
- Welch, Clark J., 1888, C. E.
- Welch, Oliver Bartlet, 1895, M. E. in E.E., Dennison, electrician, United Electric Co.
- Wendt, William Carl, 1889, G. Ph., 901 South High street, Columbus, drug clerk.
- Wertz, Edwin Slusser, 1899, B. Ph., Dalton.
- Whitacre, Horace J., 1891, B. Sc., 1895, M. D., Columbia University, Cincinnati (Mt. Auburn), physician.
- Whitacre, Marion, 1894, B. Sc., 1899, M. D., Columbia University, Cincinnati, physician.
- White, David S., 1890, D. V. M., Columbus, professor in Veterinary Medicine, State University.
- Wiggins, Sherman Tecumseh, 1894, LL. M. (LL. B., University of Michigan), 1897, B. Ph., Columbus.
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- Wilcox, Edwin Mead, 1896, B. Sc., Harvard University.
- Wilcox, McAllister, 1898, LL. B., Sunbury.
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- Wilgus, Horace Lafayette, 1882, B. Sc., 1884, M. Sc., Ann Arbor, Mich., professor of Law, University of Michigan.
- Wilgus, James A., 1888, B. Ph., M. A., Plattville, Wis., professor of History and Economics in State Normal School.
- Williams, Anna Ernestine, 1899, B. Ph., Jackson.
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- Williams, Lloyd Thomas, 1896, B. Ph., Columbus, law student, State University.
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- Winter, Nevin Otto, 1897, LL. B. (A. B., Ohio Wesleyan University), Bucyrus.
- Wirth, Ida M., 1895, B. Ph., Columbus.
- Wirthwein, Louis Philip, 1899, C. E., Columbus.
- Wise, Albert Joseph, 1898, C. E., Cleveland, "Big Four" R. R.
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- Wood, Kenneth Dodge, 1881, B. A., Columbus, secretary of the Central Ohio Paper Company.
- Wood, Willard B., 1893, B. Sc., Columbus, in Columbus Postoffice.

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Worcester, Wood Frank, 1899, B. Ph., Columbus.  
Workman, Charles, 1896, B. A., Columbus.  
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Wright, Carrie, 1892, B. Ph., Chicago, Ill., teacher in the Armour Institute.  
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## Y

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## Z

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THIRTIETH ANNUAL REPORT

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UNIVERSITY of ILLINOIS.

OF THE

BOARD OF TRUSTEES

OF THE

OHIO STATE UNIVERSITY

TO THE

GOVERNOR OF OHIO

FOR THE

YEAR ENDING JUNE 30, 1900.



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1899-1900

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1899-1900

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\* Died October 16, 1899.

## ANNUAL REPORT

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OHIO STATE UNIVERSITY

7

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\* Absent on leave.

\* Resigned September 21, 1900.



## ANNUAL REPORT

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\* Resigned September 21, 1900.

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WILBER E. MANN,  
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WILLIAM C. MILLS,  
Curator of Archaeology — 91 West Frambes avenue.

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\* Resigned January 23, 1900.

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1899-1900

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### STATE GEOLOGIST.

(1) PROFESSOR EDWARD ORTON.

### STATE SEALER OF WEIGTHS AND MEASURES.

THE PROFESSOR OF PHYSICS, *Ex-Officio*.

---

(1) Died October 16, 1899, and was succeeded by Professor Edward Orton, Jr.

COLUMBUS, O., June 30, 1900.

His Excellency, HON. GEO. K. NASH, Governor of Ohio:

DEAR SIR: I have the honor to transmit herewith the thirtieth annual report of the Board of Trustees, Ohio State University.

Very respectfully,

Your obedient servant,

ALEXIS COPE, *Secretary.*





# REPORT OF THE BOARD OF TRUSTEES.

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OFFICE OF THE BOARD OF TRUSTEES,

OHIO STATE UNIVERSITY,

COLUMBUS, O., *June 30, 1900.*

HON. GEORGE K. NASH, *Governor of Ohio.*

SIR:—In compliance with law, the board of trustees respectfully submits the thirtieth annual report of the Ohio State University, it being for the year ending June 30, 1900.

## ENDOWMENT.

The part of the irreducible debt of the state which forms the endowment of the university, at the date of the last annual report, June 30, 1889, was \$552,617.66, on which the annual interest was \$33,157.06.

Under the operations of the act of the general assembly of March 14, 1889, entitled "an act to quiet title to unpatented lands in the Virginia military district of Ohio," the following sums were added thereto: July 7, 1899, \$338.00; August 8, 1899, \$130.22; September 11, 1899, \$80.00; November 13, 1899, \$72.70; January 15, 1900, \$428.54; April 18, 1900, \$101.00; May 8, 1900, \$51.50; June 15, 1900, \$74.00; total for the year, \$1,275.96;—making the endowment fund June 30, 1900, \$553,893.62, on which the annual interest is \$33,233.61.

## THE WILLIAM J. BRYAN PRIZE.

It will be remembered that in April, 1898, the Honorable William J. Bryan, in a letter addressed to the president of the university proposed "to give to the university, if agreeable to the trustees, \$250, the same to be invested and the proceeds used as a prize for the best essay discussing the principles which underlie our form of government."

The board of trustees promptly expressed its willingness to receive such gift and Mr. Bryan a few weeks later forwarded a draft for the amount.

On July 20, 1898, pursuant to the provisions of section 4105-15 of the revised statutes of Ohio said sum was certified into the state treasury and became a part of the irreducible debt of the state, bearing interest at the rate of six percent per annum payable semi-annually.

There were no competitors for the prize until June 30, 1900, when the accumulated interest added to the principal sum made the endowment \$282.50, and the interest thereon, \$16.95.

The interest thus accumulated was awarded on competition to Mr. Charles W. Gayman, of the class of 1900, in accordance with the terms of the gift, — he having submitted the best essay on the principles underlying our form of government.

#### RECEIPTS AND DISBURSEMENTS.

The following are the receipts and disbursements for the year ending June 30, 1900:

##### RECEIPTS.

Balance in treasury June 30, 1899.....	\$9,088 04
Interest on endowment.....	33,204 22
State levy .....	166,076 15
Sale of refunding bonds.....	43,611 00
Appropriation act of congress, 1890.....	25,000 00
Rents .....	1,111 00
Virginia military lands.....	30 00
Student fees .....	31,920 75
Sale store room cards.....	2,954 04
Sale store room supplies.....	459 62
Emerson McMillin fellowships.....	190 00
N. B. M. A. scholarship in ceramics.....	250 00
Diploma fees.....	735 00
American Association for the Advancement of Science (unused appropriation returned).....	188 51
Sale of Buckeye engine.....	450 00
Interest on W. J. Bryan prize.....	8 15
Sale of supplies, ceramics department.....	50 00
From commencement luncheon.....	59 00
Miscellaneous receipts .....	232 32
	<hr/> \$315,617 80

##### DISBURSEMENTS.

Salaries .....	\$153,197 84
Expenses of trustees.....	387 87
Repairs .....	10,680 34
Fuel .....	6,705 60
Gas .....	1,448 14
Library .....	5,974 18
Printing and advertising.....	2,858 12
Special bulletins .....	1,362 00
Virginia Military Lands.....	5,059 16
Roads and grounds .....	1,240 43
Water rates .....	1,219 77
Bonds and interest.....	81,313 20
Repairs and extensions, heat, power and light plant.....	4,682 53
Residence for astronomer.....	2,585 06
Apparatus .....	9,558 99
Laboratory supplies .....	10,320 45
Tools and machinery.....	1,756 73
Arc lamps.....	200 00
Orton memorial.....	121 25
Furniture, cases and shelving.....	962 29
Lockers .....	375 00

Blank books and stationery.....	437 26	
Rent for fire alarm and watchman boxes.....	112 00	
Postage .....	399 90	
Commencement expenses .....	565 45	
Installing experimental boiler.....	1,093 10	
Agricultural students' union.....	119 10	
Oils .....	201 22	
Telephone service .....	365 27	
Telegrams .....	40 58	
Messenger service .....	468 90	
Extra clerical services.....	103 90	
General supplies, cleaning materials, etc.....	434 66	
Freight and cartage.....	666 73	
Examination paper .....	221 90	
Live stock .....	182 00	
Feed .....	300 29	
Seeds and plants.....	132 26	
Miscellaneous .....	637 87	
		<hr/> \$308,491 34
Balance in hands of treasurer June 30, 1900.....	\$7,126 46	

In the treasurer's report filed herewith said receipts and disbursements are set forth in fuller detail.

#### THE VIRGINIA MILITARY LANDS.

To June 30, 1899, the total receipts from sales of the Virginia military lands, granted to the university by the act of the general assembly of March 26, 1872, were .....	\$65,395 28	
The receipts from this source during the year ending June 30, 1900, were.....	30 00	
		<hr/> \$65,425 28
The expenses incident to the survey and disposition of said lands to June 30, 1899, were.....	23,999 09	
Such expenses for the year ending June 30, 1900 (including \$5,000 paid in settlement of pending suits hereafter mentioned) were.....	5,059 46	
		<hr/> 29,058 55
Leaving net cash receipts to June 30, 1900.....	\$36,366 73	
Of this sum on June 30, 1899, there had been paid into the state treasury to the credit of the endowment fund .....	13,665 14	
And expended for building and maintaining residences for the professors under act of April 17, 1882.....	20,052 51	
During the year ending June 30, 1900, there was expended for a residence for the director of the Emerson McMillin Observatory .....	2,585 06	
		<hr/> 36,302 71
Leaving balance June 30, 1900.....	\$64 02	

The receipts and disbursements of this fund for the year ending June 30, 1900, are included in the preceding general account of the aggregate receipts and disbursements.



## ADDITIONS TO ENDOWMENT.

For the period ending June 30, 1899, the additions to the endowment under the operations of an act of the general assembly of March 14, 1889, entitled "an act to quiet title to unpatented lands in the Virginia military district of Ohio," the act of April 21, 1893, entitled "an act for the relief of certain persons who formerly held lands in the Virginia military district of Ohio," an act amendatory of said last mentioned act passed May 21, 1894, and an act passed April 26, 1898, entitled "an act making appropriations for the relief of certain persons who formerly held lands in the Virginia military district of Ohio," were \$14,776.22.

During the year ending June 30, 1900, under the operations of said first mentioned act, there was added to the said endowment the sum of \$1,275.96: making total additions to the endowment under said acts \$16,052.18.

## THE KENDRICK SUITS.

The suits mentioned in former reports which grew out of a contract made with the late Mr. Sam Kendrick in 1882, for the discovery of undiscovered lands in the Virginia military district of Ohio, have been finally settled and compromised by the payment to the plaintiffs of the sum of \$5,000 inclusive of the costs.

As this important and expensive litigation is now closed a brief resumé of the facts which led to it is presented. In 1882, while the board of trustees, through its agents, was endeavoring to ascertain and dispose of the Virginia military lands granted to the university by act of the general assembly of March 26, 1872, Mr. Sam Kendrick of Chillicothe, at that time principal surveyor of said lands, represented to the board that he had in his possession the only complete records of said lands and was able to point out numerous tracts which the agents of the board had failed to discover and which would yield a handsome addition to the funds of the university. After full consideration of these representations, the board, in August 31, 1882, employed said Kendrick "to discover, survey, plat, cause to be appraised, and sell undiscovered lands in the Virginia military district, belonging to the Ohio State University," \* \* \* "the sales and the conduct of all litigations and negotiations concerning the same to be reported to the executive committee of the board and by said committee approved before the same shall be binding upon either party. After said approval, all expenses of surveying, appraising or litigating, and other necessary expenses incurred, save and except the time given by said Kendrick, to be paid out of such funds as may arise from each tract of said lands by sale or compromise, and the residue of each tract to be divided as follows: to the Ohio state university 66  $\frac{2}{3}$  per centum and to said Kendrick 33  $\frac{1}{3}$  per centum." It was provided in said contract of employment that \* \* \* "Undiscovered lands shall be held to include all of said Virginia military lands reported by said Kendrick, and not known to the board or any of its former or present

agents." And that "the said Kendrick is hereby fully authorized to compromise and settle any case or cases with the approval of the executive committee, this authority to terminate on the 10th day of November, 1883."

Provision was made in the contract for the payment of the moneys received, and the making of proper conveyances, and it was also further provided, "that the said Kendrick is to be entitled to the said 33 1/3 percentum of all cases reported by him and approved by said committee, and not finally settled at the date fixed for the determination of this authority.

Mr. Kendrick accepted such employment on the day aforesaid, August 31, 1882, and on the 14th day of November, 1882, reported to the executive committee the discovery of 38 tracts of land and was authorized by the committee "to investigate the titles of said several tracts."

Mr. Kendrick continued from time to time to report additional discoveries until November 14, 1883, when the number had reached 50. On that day, after hearing a verbal report of his transactions concerning said lands, the board passed a resolution declaring that as his contract by the terms thereof ceased on November 18, 1883, it was the opinion of the board that it should not be renewed or extended and directing him "to close up the business reported by him by the second Tuesday of November, 1884.

While engaged in closing up the discoveries already reported Mr. Kendrick from time to time reported other discoveries and the reports were received and filed. In some cases he was authorized to settle and compromise cases of discoveries reported after the date on which the contract was formally terminated, and after the time fixed by resolution for closing up the business.

In 1884, in the case of *Fussell v. Gregg* the supreme court of the United States decided, or seemed to decide, that in all cases of lands in the Virginia military district of Ohio, where the survey was made prior to January 1, 1852, and was not filed in the general land office in Washington, until after that date, the proceedings were void, the lands remained unappropriated and passed by the act of cession to the state of Ohio, and by act of the general assembly to the Ohio state university.

Stimulated by this decision Mr. Kendrick began to report these lands to the board as discoveries. The case of *Coan v. Flagg*, decided by the supreme court of the United States in 1887, confirming the opinion of the same court in the case of *Fussell v. Gregg* still further stimulated the activity of Mr. Kendrick in reporting the unpatented surveys as discoveries until the alleged discoveries reported by him reached the number of 238.

These decisions and the widely asserted claims of Mr. Kendrick spread consternation among the occupants of these surveys throughout the Virginia military district.

Many of them had been occupied and improved by their then owners and those under whom they claimed title for periods varying from twenty

to eighty years. They had built their homesteads and had paid taxes upon them and had exercised all the privileges of ownership, all this time, in the belief that their titles were secure. When informed that their titles were absolutely void and that their lands belonged to some one else their feelings can better be imagined than described.

They applied to the general assembly for relief, and on March 14, 1889, an act was passed providing for quieting the titles to these lands. The act provided that on its acceptance by the board of trustees, the occupants of such surveys might, on payment of two dollars and on proof that they or those under whom they claimed had occupied and improved the lands for more than twenty-one years, demand of the board deeds quieting their titles, and thereupon the auditor of state was required to add to the endowment fund of the university one dollar for each acre of land so conveyed. On the 20th day of June, 1889, after full discussion and careful deliberation, the board formally accepted the provisions of said act.

Before such acceptance, an effort was made to effect a settlement with Mr. Kendrick, but his demands were so extravagant that no agreement was possible. After such acceptance, on the 16th day of November, 1889, he filed a suit against the board of trustees in the court of common pleas of Franklin county, setting forth the contract before referred to, the filing of the aforementioned discoveries and asking judgment for the sum of \$133,333.33, with interest from March 14, 1889.

A few months later Mr. N. W. Evans, of Portsmouth, who had been acting as Mr. Kendrick's attorney, also filed a suit in the same court against the board of trustees claiming \$5,000 for legal services rendered in connection with these reported discoveries.

With the advice and consent of the attorney general, Messrs. Harrison, Olds & Henderson were employed to defend these suits.

The preparation for their defence involved a vast amount of labor on the part of the board and its attorneys, requiring a patient and careful examination of the Virginia military land records both in Ohio and in the general land office in Washington. The Evans case was tried in January, 1898, and was decided in the court of common pleas in favor of the university, but was carried on error to the circuit court. Two weeks were occupied in its trial. The immense labor involved in the trial of the Kendrick case, which was really two hundred suits in one, — each alleged discovery having its separate and distinct history and the claim therefor depending upon the separate and distinct facts connected therewith, — made the board of trustees very willing to compromise on reasonable terms. When, therefore, a proposition from the plaintiff was made to settle the case for a sum not greater, probably, than it would cost to try it, the proposition was accepted and by agreement the case was settled and dismissed by payment to the plaintiff of the sum of \$4,000 including costs of suit.



As the two cases grew out of the same transaction, the case of N. W. Evans against the board of trustees was at the same time settled and compromised for the sum of \$1,000, out of which the costs in the suit, amounting to \$246.96, were paid by the board of trustees.

## NEW MORRILL FUND.

The following statement shows the receipts and disbursements for the year ending June 30, 1900, of appropriations made by act of congress, approved August 30, 1890, and known as the "New Morrill Fund," and which are included in the preceding statement of the aggregate receipts and disbursements for that period.

## RECEIPTS.

Balance in treasury June 30, 1899.....	\$37 31	
Appropriations for year ending June 30, 1899.....	25,000 00	
		<hr/> \$25,037 31

## DISBURSEMENTS.

For instruction and facilities in agriculture.....	\$4,341 61	
For instruction and facilities in mechanic arts.....	8,178 19	
For instruction and facilities in English language.....	1,258 99	
For instruction and facilities in mathematical science.....	2,072 82	
For instruction and facilities in natural and physical science .....	7,860 40	
For instruction and facilities in economic science.....	1,126 99	
		<hr/> 24,839 00
Balance in treasury June 30, 1900.....		<hr/> \$198 31

The law of congress making the appropriation requires a detailed annual report of the receipts and disbursements of this fund, which report for the year ending June 30, 1900, is appended to the treasurer's report filed herewith.

It will be seen by the foregoing statement that the appropriation of the general government which begun at \$15,000 a year and was to be increased annually by \$1,000 until the amount was \$25,000 and then continued at that sum, has reached its highest limit.

This annuity was, by the act of 1890, which created it, made payable out of the proceeds of the public lands.

In the 55th congress its continuance was threatened by a bill popularly called the "free homes bill", which gave to settlers on the agricultural public lands which had been acquired by treaty or agreement from the various Indian tribes, patents for their lands "upon payment to the local land officers of the usual and customary fees and no other or further charge of any kind whatsoever."

This bill in the opinion of the commissioner of the general land office would give to such settlers about \$35,000,000 of the anticipated receipts from sales of the public lands and would virtually wipe out this source of national revenue. The bill passed the senate and was favorably



reported by a committee of the house, when the executive committee of the American land grant college association, on which the university is represented, met in Washington and organized an opposition to its passage. The opposition was ably led by General C. H. Grosvenor, and was successful in defeating the measure.

At the late session of the 56th congress the bill was again introduced into and passed the senate, but in the house, to allay the opposition of the land grant colleges, the author of the bill accepted an amendment prepared by the executive committee of the land grant college association, providing: "That in the event that the proceeds of the annual sales of the public lands shall not be sufficient to meet the payments heretofore provided by an act of congress approved August 30, 1890, for the more complete endowment and support of the colleges for the benefit of agriculture and the mechanic arts, established under the provisions of an act of congress approved July 2, 1862, such deficiencies shall be paid by the United States."

The bill passed the house with this amendment, the amendment was concurred in by the senate, and as so amended the bill became a law, thus putting at rest all fears for the permanence of the Morrill annuity.

#### SCHOOLS OF MINES

At the late session of congress a number of bills were introduced looking toward a congressional appropriation in aid of schools of mines in the several states and territories.

The executive committee of the land grant college association, watchful of the interests of the institutions they serve, got together the several bills introduced and prepared a bill modeled after the Morrill Act of 1890, which was introduced into the senate by Senator Tillman of South Carolina, and into the house by General C. H. Grosvenor of Ohio. The bill provides an appropriation of \$10,000, increasing the amount \$1,000 annually until it reaches \$15,000, at which sum it is to continue, "for the establishment and maintenance of schools or departments of mines and mining in connection with colleges for the benefit of agriculture and mechanic arts in accordance with the provisions of an act of congress approved July 2, 1862." \* \* \* "to be expended for geological instruction, mining engineering, metallurgy, research in road-building material and its proper application, and the branches of learning related thereto, including the various branches of physical, natural and economic science and the facilities for such instruction, research and experiment, in order to promote a liberal and practical education and secure the most intelligent use, conservation and development of the mineral resources of the country."

Representatives of the executive committee of the land grant college association appeared before committees on mines and mining of the senate and house and advocated its passage.

The bill passed the senate by a unanimous vote and in the house was referred to the committee on mines and mining, which on May 22, 1900, reported unanimously in its favor.

The president of the university and the representative of the university on the executive committee of the land grant college association, by authority of the board of trustees, went to Washington and took an active part in urging this legislation.

They found an active and earnest sentiment in the house in favor of the measure, and practically no opposition to it. The pressure of other bills in the closing hours of the session prevented its consideration, but assurances were given that at the adjourned session it should have a day fixed for a hearing on its merits. Its friends have little doubt of its final passage at that time.

#### BONDED INDEBTEDNESS.

The bonded indebtedness of the university June 30, 1899, was \$355,000, due and payable as follows: \$55,000 December 1, 1899; \$10,000 June 1, 1900; \$55,000 December 1, 1900; \$10,000 June 1, 1901; \$55,000 December 1, 1901; \$10,000 June 1, 1902; \$55,000 December 1, 1902; \$10,000 June 1, 1903; \$55,000 December 1, 1903; \$10,000 June 1, 1904; \$15,000 December 1, 1904; \$10,000 June 1, 1905; \$5,000 December 1, 1905.

Of this indebtedness \$60,000 bore interest at six percent and \$295,000 at four percent per annum, payable semi-annually.

Twenty-five thousand dollars of said indebtedness falling due December 1, 1899, were paid when due and the bonds taken up and cancelled.

Under and pursuant to the provisions of an act of the general assembly entitled "an act to authorize the trustees of the Ohio state university to refund and extend the time of payment of portions of the bonded indebtedness of said institution as the same becomes due," passed April 23, 1898, \$30,000 of the four and one-half percent certificates of indebtedness falling due December 1, 1899, were taken up by an issue of the same amount of four and one-half percent refunding bonds falling due, \$10,000 December 1, 1905, and \$20,000 December 1, 1906.

Said bonds brought a premium of \$2,705. Under the provisions of the same act the \$10,000 of six percent certificates of indebtedness falling due June 1, 1900, were also taken up by a further issue of four and one-half percent refunding bonds falling due \$5,000 December 1, 1906, and \$5,000 December 1, 1907. Said refunding bonds brought a premium of \$906. The premiums received in these operations reduces the nominal interest on the four and one-half percent bonds to a little less than three percent.

Said reductions of principal and interest left the bonded indebtedness June 30, 1900, \$330,000, of which \$50,000 bears interest at six percent and \$280,000 at four and one-half percent per annum, payable semi-

annually. Said remaining indebtedness falls due as follows: \$55,000 December 1, 1900; \$10,000 June 1, 1901; \$55,000 December 1, 1901; \$10,000 June 1, 1902; \$55,000 December 1, 1902; \$10,000 June 1, 1903; \$55,000 December 1, 1903; \$10,000 June 1, 1904; \$15,000 December 1, 1904; \$10,000 June 1, 1905; \$15,000 December 1, 1905; \$25,000 December 1, 1906; \$5,000 December 1, 1907.

#### INCREASE OF UNIVERSITY LEVY.

The necessity for additional buildings occasioned by increasing numbers of students had become so urgent that at a meeting of the board of trustees held in November, 1899, a committee composed of the president, the secretary and representatives of the board of trustees and faculty was appointed to present the matter to the incoming legislature.

The crowded condition of the department of physics and the entire lack of rooms in which the students of the college of law could be comfortably accommodated impelled the committee to make a special appeal in their behalf.

Accordingly when the general assembly met in January said committee matured a bill providing appropriations for erecting a law building and a building for the department of physics.

The bill was introduced into the house by the Hon. F. H. Heywood and referred to the finance committee.

In the hearing before the committee the needs of the university were ably presented by President Thompson.

The finance committee, while recognizing the urgent needs of the university, were averse to making any appropriation for the purpose out of the general revenues, but suggested an increase of the university levy. In accordance with such suggestion Mr. Heywood offered as a substitute for his original bill a bill increasing the university levy five one-hundredths of a mill, the increase to be used solely for the erection and equipment of buildings. The substitute was favorably reported by the finance committee, passed both houses with practically no opposition and became a law March 29, 1900.

No part of the funds provided by such levy will be available until about the middle of March, 1901.

The university is under great obligation to the Hon. F. H. Heywood who so ably championed and wisely guided the measure through the house, and to the Hon. E. H. Howard who had charge of it in the senate and secured its passage in that body. They are both graduates of the university and it is gratifying to have their names connected with an act of such importance to their alma mater.

To the other members of the general assembly who aided in this legislation the trustees on behalf of the university and its friends desire to make profound acknowledgment. It will be their ambition to so administer the funds so generously given that not a dollar shall be wasted



or misapplied, but that the whole shall be used in such a manner as to secure the largest returns for the outlay.

It has been decided to erect a law building before a building for the department of physics and as soon as practicable to have the plans, specifications and estimates therefor matured so as to begin work on the building at the earliest practicable moment.

Other buildings are needed besides those provided for as above set forth, as will be seen by the report of the president, to which attention is invited.

#### ASTRONOMER'S RESIDENCE.

The work in research at the Emerson McMillin Observatory has already arrested the attention of leading astronomers both in this country and in Europe.

Early in the spring Professor Vogel of the Potsdam Observatory in a review of the work done in the last twenty-five years upon motion in the line of sight, mentioned the work along this line done at Paris. Cambridge, England, the Lick Observatory and the *Emerson McMillin Observatory* as showing the marked progress in this new branch of modern astronomy.

Public mention was made last year of the fact that of the 57 stars whose motion in the line of sight had been determined, five of them had been determined at the Emerson McMillin Observatory by its director, Professor Henry C. Lord.

The work at this observatory has been done under unfavorable conditions because the astronomer had no place of residence near the observatory.

An observatory differs materially from other laboratories in the fact that observations are absolutely dependent on the conditions of the sky. The sky must not only be clear but the building must be opened up and cooled off before observations can begin and it frequently happens that the best nights follow days which are cloudy until late in the evening. With the observer living a mile away many hours of right conditions are lost which would not be the case if the observer lived in close proximity to his work.

These objections apply as well to students at work in the observatory as to the astronomer, for their work must be done under the same conditions. It has happened that the work of an entire evening has been lost because the astronomer lived too far away from the observatory to catch the favoring conditions of a break in the clouds which gave an hour of clear sky.

Recognizing the necessity for a residence near the observatory for the astronomer, where advantage could be taken of every favorable opportunity for observations, on September 21, 1899, President Thompson presented the matter to the board of trustees together with prelim-



inary plans, estimates, etc., for such a residence prepared by Professor Henry C. Lord, director of the Emerson McMillin Observatory.

Said plans, estimates, etc., were referred to the farm committee and action thereon deferred to the November meeting.

At the November meeting the farm committee submitted to the board completed plans, specifications and estimates for such building which were adopted by the board and the secretary was directed to present them to the governor, auditor of state and secretary of state for their approval and if approved by them then to give notice as required by law of the time and place when and where sealed proposals would be received for furnishing the materials and performing the labor necessary for the erection of the building. At the same time the sum of \$5,000 of the receipts from sales of the Virginia military lands, as authorized by Section 4105-24 of the revised statutes of Ohio, was appropriated to meet the expenses of such erection. The plans, specifications and estimates were approved by the state officers above mentioned, due notice was given as required by law and on January 23, 1900, the bids were opened and the contract for the erection of the building was awarded to Hugh J. McTeague of Columbus, at his bid of \$4,092.

The plans, specifications and estimates were prepared by Professor Henry C. Lord, director of the Emerson McMillin Observatory, and he was appointed architect and superintendent of construction, under the general direction of a building committee consisting of the president and secretary of the university and Professor J. N. Bradford.

At this date, June 30, 1900, the building is well under way and will be completed ready for occupancy by the latter part of August.

The building is located about 100 feet east of the observatory.

#### OBSERVATIONS OF THE ECLIPSE.

MAY 28, 1900.

As further evidence of the wide recognition of the excellence of the work done at the Emerson McMillin Observatory Professor S. J. Brown of the naval observatory at Washington in organizing expeditions to observe the eclipse of May 28, 1890, requested Professor Henry C. Lord, director of the Emerson McMillin Observatory, to undertake certain observations at Barnesville, Georgia, using the instruments of the Emerson McMillin Observatory.

To accomplish this work it was necessary to make several delicate attachments to the spectroscope and to construct an elaborate stand to carry the instrument. The attachment to the spectroscope consisted of a movable plate holder so arranged that four photographs two inches long and one-half an inch wide could be taken in rapid succession,—the interval between exposures not being over one-third of a second while the exposures themselves could be made long or short as desired, it being only necessary to press a bulb in order to move the plate from

one position to the next. This plate holder was designed and built by Professor Lord with his own hands in the instrument shop of the observatory, and to it is largely due the success of his observations of the eclipse.

In a letter to the secretary of the board of trustees, Professor Lord gives the following account of his work at Barnesville:

"The spectroscope and appliances were finished, set up and tested, boxed and shipped so that I could leave for Barnesville, Ga., May 9. I reached Barnesville on the evening of May 10, and found Professor Updegraff and the corps of the naval observatory already on the ground.

The work of setting up the instrument was at once begun and the first adjustments were made May 17, eleven days before the day of the eclipse but none too soon. These adjustments were already perfected, the final testing being made upon Arcturus on the night of May 26, when everything was found in readiness for the morning of the 28th.

For nearly a week preceding the eclipse I made daily rehearsals of the programme of observations. To this promptness and thoroughness of adjustment, more than to any other one thing, is due the success of my work. This is shown by the fact that on the night preceding the day of the eclipse I was taken quite sick and was but little better the next morning, but so thorough had been my self-imposed drill that I could not have done better had I been in perfect health."

Professor Lord secured seven spectrum photographs at the time of the eclipse; two showing the spectrum of the flash in the orange, green and blue. These photographs are among the best ever taken of this portion of the spectrum. The plates have not been completely measured and much of the work of the observatory has been interrupted and delayed on account of the duties devolved on the professor as architect and superintendent of the astronomer's residence.

When the building is finished, with the increased amount of time at his disposal, and with his abiding place within 100 feet of the observatory he hopes to rapidly complete the eclipse work and to resume his work on motion in the line of sight, which was interrupted by preparation for observations of the eclipse. All expenses connected with the foregoing observations of the eclipse, including Professor Lord's personal expenses, were generously borne by the U. S. naval observatory.

#### THE ROBINSON TESTING PLANT.

Among the important acquisitions during the year was the gift by Doctor S. W. Robinson of an experimental boiler and the machinery and appliances necessary for making accurate tests of boilers and fuels under varying conditions.

Doctor Robinson was led to make this donation, as was stated by him in a letter addressed to the board of trustees, by his interest in the tests of boilers and fuels made at the university by Professor Hitchcock,

his former assistant, "by reason of the unusual and high value of the results obtained" "and in the belief that the ability and enthusiasm shown by Professor Hitchcock in this work, would, with the more complete equipment proposed, be able to reach results of hitherto unknown importance."

The gift was made on condition that the trustees should assume the cost of installation, and was gladly accepted.

The original gift included a 107 HP Babcock and Wilcox boiler of wrought steel construction, capable of carrying a working pressure of 200 pounds; a Green's fuel economizer for heating the feed water by means of escaping flue gases; an air heater for heating by means of escaping flue gases the external air supplied to the fire; a forced draft fan for drawing air through the heater and from boiler room and supplying same to the fire and to furnish draft for varying degrees of combustion; and an induced draft fan for producing any practical amount of draft independent of stack or chimney.

Dr. Robinson afterwards added to the gift a steam engine for driving the economizer and the necessary iron work for connecting up the fans. The value of the gift is near \$3,000.

The apparatus has been installed at a cost of \$885.78 and the boiler has been connected with the general heating system for use in emergencies at a cost of \$131.33.

Doctor Robinson served on the committee having charge of the installation, gave every detail careful attention, and rejoices with the university authorities, that the institution has the most complete plant of the kind in existence.

#### THE CAMPUS.

During the year just ended the sum of \$1,240.43 was expended on the campus. A brick walk was laid between University and Orton Halls at a cost of \$212.05 and the remainder of said sum was expended in mowing the lawn and caring for the roads, walks and drives.

Provision has been made for the beginning of a botanic garden and a few beds of medicinal and other plants have been set out in that part of the campus south of Botanical Hall. An assistant in the department of botany has been employed whose special work is to look after them and make such additions thereto from time to time as the funds will supply, or that can be obtained by gift or exchange with other botanical gardens. With comparatively small expense it is hoped that the university can soon have a botanic garden worthy of the name.

#### THE LIBRARY.

The expenditures for the library for the year ending June 30, 1900, exclusive of the salaries of the librarian and assistants were \$5,974.18.

Of this sum \$427.82 was paid for furniture, cases and shelving;



\$96.24 for current supplies; \$568.85 for binding; and the remainder, \$4,881.27, was expended for books and periodicals.

The report of the librarian shows that the number of accessions during the year was 7,443 and the total number of volumes June 30, 1900, 35,430.

Through the courtesy and interest of Mr. L. C. Ferrel, superintendent of documents, Washington, D. C., about 600 public documents were recently added to the books of the library and 766 valuable reports and documents in the United States embassy at Madrid were secured for the university by payment of the freight thereon.

Many gifts of books from private sources are mentioned in the librarian's report, chief among them a collection valued at \$150, illustrative of the influence of the Quakers in American history, especially during the colonial period, presented by Mr. John J. Janney of Columbus, and over \$400 worth of books on German history presented by Messrs. John and Louis Siebert of Columbus and which have been added to the library bequeathed by Mr. William Siebert of Illinois, whose bequest was mentioned in a former report. Due acknowledgment of these gifts is made elsewhere in this report.

The librarian again calls attention to the pressing need of a library building, which must be provided at an early day.

With such a building in view she has taken up the comparative study of college and university library buildings and has already visited and inspected at her own expense a number of the leading buildings of the kind in the United States.

The board of trustees hopes that at no distant day means will be provided for the erection of such a building, commensurate with the great and growing needs of the university.

The demand for additional books is greater than the funds of the university can at present supply and the faculty has by resolution petitioned the board to add to the usual annual appropriation for the library the sum (\$1,125) annually saved in interest by reduction of the bonded indebtedness, to be expended solely in the purchase of books.

This petition is still pending before the board.

#### AMERICAN ASSOCIATION FOR ADVANCEMENT OF SCIENCE.

One of the notable events of the year was the meeting in August, 1899, of the American Association for the Advancement of Science.

The board of trustees united with the board of trade of Columbus, the state historical and archæological society, the Ohio society of mining engineers and other learned societies in extending an invitation to this association to hold its annual meeting in Columbus and tendered it the free use of the halls, lecture rooms and laboratories of the university, which invitation was promptly accepted.

This great association had recently honored Doctor Edward Orton and honored itself by electing him as its president, and it seemed emi-



nently proper that it should hold its annual meeting at the Ohio State University where he had done so much to advance the cause of science.

The session lasted nearly a week and brought together between three and four hundred workers in science, many of them men of world-wide reputation. The halls, lecture rooms and laboratories of the university were thrown open for these meetings and the faculty, citizens of Columbus, and college men of Ohio outside Columbus vied with each other in paying merited honors to the distinguished visitors. A noonday luncheon was served to the members in the armory at which there was an opportunity for making acquaintances and for exchange of social courtesies which added much to the pleasure of the occasion.

Many important papers were read and discussed, and the interchange of ideas and courtesies between the members of the faculty who were present and the scientific men and women from the leading universities and colleges of the country was profitable and inspiring, and has done much to advertise the university and to increase its reputation in the scientific world. The board of trustees voted the sum of \$500 toward the entertainment of the association, but the subscriptions by the board of trade and private citizens of Columbus were so liberal that after all expenses of such entertainment were met the committee returned \$188.51 of the appropriation.

#### NATIONAL GRANGE.

In October, 1899 the national grange held its annual meeting at Springfield, Ohio,—the state grange of Ohio meeting at the same time and place,—and on invitation of the board of trustees these organizations spent a day at the university as the guests of the trustees and faculty. The president of the university delivered a welcome address in the chapel to which responses were made by the officers of the organization, after which the members inspected the various buildings, collections and laboratories and went away duly impressed with the liberal provision made at the university for instruction in the branches related to their calling.

#### FACULTY.

During the year the university suffered a great loss in the death of Doctor Edward Orton who for many years had so ably filled the chair of gology. Doctor Orton was the first president of the university and during the years of its early struggles was the central force around which all its interests revolved. He stood for the broad and liberal policy which finally prevailed as against that which would have kept it within a narrow field and restricted its sphere of usefulness. The labors of Doctor Orton and of the first faculty of the university who nobly sustained him in his policy are now recalled with gratitude by all the friends of the university. Their unselfish devotion to high ideals in educational work, their patient toil and the influence of their lofty characters are woven into the web and woof of the institution. They shaped its ideals and

gave it an individuality which it is to be hoped it may never entirely lose. In December, 1891, Doctor Orton suffered a stroke of paralysis which partly disabled him, but he continued in active charge of his department until the latter part of May, 1899, when he asked to be relieved of a portion of his work and that his salary be proportionately reduced. Knowing that it was in entire consonance with his real wishes, the board of trustees reluctantly complied with his request.

This action on his part now seems to have been a premonition of the closing scene. He recognized that his physical powers were failing but continued to meet his classes and to haunt the geological museum which had grown up under his wise and careful labors until about the second day of October, 1899, when he took to his room. On the thirteenth day of October, 1899, the check for his salary for the previous month was sent to him and on the same day he wrote acknowledging its receipt, saying, "It seems that I worked up to my natural limit. There has not been a day this term when I was able to lecture. When a man loses appetite and power to sleep he is pretty well gone. That is my condition now." On October 16, 1899, he passed quietly away.

Memorial services in his honor were held in the chapel November 26, 1899, at which Dr. G. K. Guilbert, one of his associates in the U. S. geological survey, Dr. T. C. Mendenhall, president of the Worcester Polytechnic Institute, one of his old associates in the first faculty, Ex-President W. H. Scott and Professor Samuel C. Derby of the present faculty and Hon. T. J. Godfrey of the board of trustees paid eloquent and appropriate tributes to his memory.

These addresses, preceded by a brief biographical sketch prepared by Professor Samuel C. Derby, were printed at the expense of the university, bound in a tasteful brochure and placed in the hands of the president for distribution to the faculty, alumni and friends of the university and to the libraries of other universities and colleges.

Doctor Orton stood unchallenged as the university's highest exemplar of broad scholarship and liberal culture, and for the noblest and best things in character and human activity.

Recognition of his worth was not delayed until after his death, as is frequently the case, but found expression during his life in honors paid to him by his fellow workers in the field of science, and in increasing reverence and respect shown for him by his associates in the faculty, by alumni and students and by his fellow citizens.

The board of trustees in 1892 honored him by naming the building erected for the safe keeping of the geological museum, "Orton Hall."

Now that he is gone it is seen how appropriate and fitting it was that his name should thus be perpetuated. In it are stored the valuable collections he made during the period of his greatest activity.

It was his ambition to write in a book with his own hand a description and history of each one of the more than ten thousand specimens

there deposited, and to mark and number them so that they could be readily identified.

This work was fully completed at the time of his death, — the last entries therein having been made October 2, 1899, the day of his last appearance at the university. This book is deposited in the museum and is a priceless memorial of his patient, untiring labors in the field of science.

The building and what it contains are therefore his fitting monument and will speak for him, we trust, as long as the university endures.

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Since Doctor Orton's death the work of the department of geology has been carried on by Mr. Charles S. Prosser, associate professor of historical geology and Mr. John A. Bownocker, associate professor of inorganic geology and curator of the museum.

In November, 1899, in recognition of his former services to the university the name of Doctor Stillman W. Robinson was restored to the faculty roll as *emeritus* professor of mechanical engineering.

In June, 1878, Doctor Robinson was called to the chair of physics and mechanics vice Doctor T. C. Mendenhall who had resigned to accept a professorship in the imperial university of Japan.

In June, 1881, Doctor Mendenhall returned to the university as professor of physics and Doctor Robinson was placed in charge, as professor, of a newly created department of mechanics, the name of the department being subsequently changed to that of mechanical engineering.

Doctor Robinson continued in active charge of this department until the latter part of 1895 when he was compelled to give up work on account of failing health, was granted a leave of absence and shortly afterwards resigned.

Since his resignation he has lived near the university and though occupied with many business cares has kept in touch with the university life and retained his interest in its affairs.

His restoration as a member of the university faculty was warmly welcomed by his former associates in the faculty and by the alumni and students who had profited by his instruction.

While the position to which Doctor Robinson has been elected is purely honorary, requiring no special professional work, the counsel freely given of one so eminent in his profession cannot be otherwise than inspiring and helpful to the university.

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At the same time Doctor Sidney A. Norton, in similar recognition of his services as the first professor of chemistry, was elected *emeritus* professor of general chemistry, said election to involve no change in his present duties, that of lecturer in general chemistry.



Other less notable changes in the faculty are mentioned in the report of the president, and in the annual catalogue for the year ending June 30, 1900, which are filed herewith and made a part of this report.

The number of professors in the academic faculty is 30; directors of departments, 3; associate professors, 14; assistant professors, 19; lecturers, 1; fellows and laboratory assistants, 16; librarians, 1; instructors, 2; assistants, 27; curators, 1.

The law faculty consists of the dean, 5 professors and 2 lecturers.

The position and compensation of members of the faculties and other employees of the university are stated elsewhere in this report.

#### DEGREES.

At the commencement in June, 1900, on the recommendation of the faculty, the following degrees were conferred:

##### MASTER OF ARTS.

Lucy Allen, B. A., Columbus, O.; William Edward Bohn, B. A., (German Wallace College), Olmsted Falls, O.; Paul Revere Good, B. A., Westerville, O.; Anna Brewster Hirst, B. A., (Antioch College) Yellow Springs, O.; Wilbur E. Mann, B. Ph., Columbus, O.; John Bernard Parker, B. A., Danville, O.; Zella Vina Robinson, B. Ph., Columbus, O.; Herbert Oswald Williams, B. A., Columbus, O.

##### MASTER OF SCIENCE.

Frederick James Hale, M. E., Columbus, O.; Washington J. Machwart, B. S., (Muskingum College) Mt. Eaton, O.; Raymond Carroll Osborn, B. Sc., Fargo, N. Dakota.

##### BACHELOR OF SCIENCE

###### (In Agriculture)

Vernon Hayes Davis, Byesville, O.; Elmer Otterbein Fippin, Briggsdale, O.; Merritt Findlay Miller, Ridpath, O.; Charles Napoleon Mooney, Milan, O.; Arthur Gillett McCall, McGaw, O.; Charles Benjamin Steward, Marcy, O.; Frederick Wellington Taylor, Wooster, O.

##### BACHELOR OF SCIENCE

###### (In Horticulture and Forestry)

Frederick Jared Tyler, Perry, O.

##### BACHELOR OF SCIENCE

###### (In Domestic Science)

Laura A. Weisman, Columbus, O.

##### BACHELOR OF ARTS.

Eliza Daugherty Barcus, Columbus, O.; Homer Zurmehly Bostwick, Columbus, O.; J. Loring Courtright, Circleville, O.; George William Stimson, Columbus, O.; John Hervey Eagleson, Columbus, O.; Joseph Pentecost Eagleson, Columbus, O.; Arthur Byron Harward, Columbus, O.; George Melville Karshner, Columbus, O.; William Watts Parmenter, Mt. Vernon, O.; Mary Washington Rice, Columbus, O.; Charles Boyd Sayre, Columbus, O.; Fred Lant



Travis, Pana, Ill.; John Francis Travis, Green Camp, O.; Earle Downs West, Columbus, O.

#### BACHELOR OF PHILOSOPHY

(Latin Course)

Ida May Fisher, Columbus, O.; Anna Faye Howard, Columbus, O.; Richard Thomas Jones, Columbus, O.; Grace Lenore Pitts, Columbus, O.; Margaret Glaze Pulling, Columbus, O.; Mae B. Schaff, Columbus, O.; Lawrence David Thomas, Lancaster, O.; Harry Porter Weld, Marysville, O.

#### BACHELOR OF PHILOSOPHY

(Modern Language Course)

Edna Alice Andress, Birmingham, O.; Frank Arthur Bohn, Olmsted Falls, O.; Charles Fuller Dowd, Toledo, O.; Hedwig Eloise Gamper, Columbus, O.; Victor Clarence Moon, Columbus, O.; Clara Maud Williams, Columbus, O.; Mary Grace Young, Mt. Vernon, O.

#### BACHELOR OF PHILOSOPHY

(English Course)

Royal Albert Abbott, Columbus, O.; Florence Louise Bell, Columbus, O.; James Henry Burgess, Big Horn, Wyoming; Alice Marie Connor, Columbus, O.; Ellen Josephine Connor, Columbus, O.; Dille Augusta Dill, Columbus, O.; Bertha Webb Eisenbeis, Columbus, O.; Ross Garfield Fox, Columbus, O.; Charles Welton Gayman, Canal Winchester, O.; Hattie DeLong Hoffman, Columbus, O.; Allen Brown Jaynes, Columbus, O.; Gordon Donald Kinder, Ottawa, O.; David Klein, Columbus, O.; Caroline Estelle Knight, Columbus, O.; Charles Howard Lisle, Pataskala, O.; Gretchen Pauline Miller, Columbus, O.; Raymond McCallum, Dayton, O.; Talmadge Archer Rickey, Columbus, O.; Carl Fletcher Roebuck, Dalton, O.; Dudley Scott, Columbus, O.; Charles Tod Singleton, Columbus, O.; Albertine Charleen Smith, Columbus, O.; Virginia Roletta Smith, Columbus, O.

#### BACHELOR OF SCIENCE.

Harvey Clinton Dollison, Columbus, O.; Wilbur Latimer Dubois, Cincinnati, O.; Fred James Jeffrey, Columbus, O.; Edgar Howard Moore, Columbus, O.; Walter Leffingwell Redrow, Williamsburg, O.; Raymond Jesse Seymour, Columbus, O.; Abner Andrews Osborn, Columbus, O.

#### CIVIL ENGINEER.

Harry William Bowden, Minerva, O.; Fred Kellogg Pratt, New Philadelphia, O.; Charles William Shepherd, Huron, O.

#### ENGINEER OF MINES.

Frank Stewart Knox, Columbus, O.; Albert B. Myers, Columbus, O.; John H. Nold, Columbiana, O.

#### MECHANICAL ENGINEER.

Andrew Francis Cavanaugh, Dayton, O.; George Winfield Frost, Columbus, O.; Harry Smithson Needham, Columbus, O.; William Abner Knight, Columbus, O.; Alfred Heber McIntire, Mt. Vernon, O.; William George Drummond, Cleveland, O.; Arthur Hollingshead Lyon, Wauseon, O.; Robert Rusk Harkins, Columbus, O.; Joseph Henry Vosskuehler, Dayton, O.

MECHANICAL ENGINEER  
(In Electrical Engineering)

Alvin Earnest Buchenburg, Holgate, O.; William Clayton Hayman, Holgate, O.; Whitney Earl Lamb, Commercial Point, O.; Robert Rowse Dunlop, Columbus, O.; Charles Marion Nicholson, Columbus, O.; Madone Carington Hunter, Salt Creek, O.; Corliss Edgar Lee, Speidel, O.; Samuel Houston Kanmacher, Columbus, O.; Earl Stimson Johnson, Plants, O.; George Ernest Schreiber, Ironton, O.; Williard Beverly Marshall, Columbus, O.

ENGINEER OF MINES  
(In Ceramics)

Walter Morgan Fickes, Steubenville, O.

BACHELOR OF SCIENCE  
(In Chemistry)

Clarence Philander Linnville, Hagenbaugh, O.

BACHELOR OF LAWS.

Arthur Everett Addison, B. Ph., Columbus, O.; Clarence Maywood Addison, B. Ph., Columbus, O.; Frederic Ijams Bright, Logan, O.; Anthony Brackett Calvin, A. B., (Northeastern Ohio Normal College) Youngstown, O.; Charles Ross Cary, Millersburg, O.; Alfred Jacobs Croll, A. B., (Ohio Normal University) Tontogany, O.; Roscoe Bryant Darby, Wauseon, O.; D. Homer Graven, A. B., (Ohio Normal University) Nashville, O.; Winfield Scott Hancock, A. B., (Marietta College) Marietta, O.; Ellahue Ansile Harper, A. B., (Ohio Wesleyan University) Columbus, O.; Harry Hartman Hershey, A. B., (Mt. Union College) East Greenville, O.; Benson Walker Hough (as of class of 1899), Delaware, O.; Edward Lafayette Kellison, B. Ph., Quincy, O.; Quinton R. Lane, B. Ph., Canal Winchester, O.; Ingle Alman Morris, Columbus, O.; Clayton Asa McCleary, Ph. B., (Franklin College) Lorain, O.; Robert Edward McClure, Dayton, O.; Benjamin Di Nicola, Barnhill, O.; Allen J. Seney, B. Ph., (University of Michigan) (as of class of 1899) North Baltimore, O.; Amos Claude Stevenson, A. B., (Oberlin College) Fostoria, O.; Edwin Slusser Wertz, B. Ph., Dalton, O.; Lloyd Thomas Williams, B. Ph., Jackson, O.; Frank Wilson, B. S., (Scio College) Jolly, O.; Charles Hiram Woods, Chillicothe, O.; Paul B. Yockey, B. A., Columbus, O.

BACHELOR OF SCIENCE  
(In Pharmacy)

Charles Hubbel Kimberly, Columbus, O.

DOCTOR OF VETERINARY MEDICINE.

Clarence Alfred Clawson, B. Sc., (Agr.) Okeana, O.; Harry James Hammond, Sharon Center, O.; William Eddy, Cleveland, O.; Charles James Morrow, Tiro, O.

NUMBER OF STUDENTS.

The enrollment of students during the year was as follows:

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE AND COLLEGE OF LAW.

First semester, 606; second semester, 564.

OTHER COLLEGES.

Fall term, 583; winter term, 546; spring term, 470.

## ANNUAL REPORT

The whole number in attendance during the year as shown by the catalogue was 1252.

The numbers in the several colleges, departments and classes and the courses of study pursued in each are shown in the appendix to the president's report and in the catalogue filed herewith.

### GIFTS DURING THE YEAR.

Besides those especially mentioned in the preceding pages of the report, the university has received by gift the following additions to its museums and collections:

#### DEPARTMENT OF AGRICULTURAL CHEMISTRY.

Set of products from soap works of Proctor & Gamble, Cincinnati, Ohio, packed in glass bottles and valued at \$5.00.

A set of products of the Chicago Sugar Refining Co., in twenty-four glass bottles, value \$10.00.

#### DEPARTMENT OF ELECTRICAL ENGINEERING.

Example of early Edison meter by H. W. Brooks, "02."

Circuit breaker by Cutter Electric Co.

Set of blue prints and photographs by St. Louis Car. Co.

Set of photographs by Ridgway Dynamo & Engine Co.

Set of samples of cables by National Cable Co.

Set of photographs by General Electric Co.

Set of armature coils by J. C. Lincoln.

#### DEPARTMENT OF INDUSTRIAL ARTS.

Eighty-two assorted files, for displaying case.

One 2 in. Sellars shaft coupling from Wm. Sellars Co.

One 2 in. Collins shaft coupling from Jones & Laughlin.

One sample tuyere from Buffalo Forge Co.

#### DEPARTMENT OF MECHANICAL ENGINEERING.

A quarter turn counter shaft from Mr. T. R. Almond, Brooklyn, N. Y.; an 18 in. hydraulic motor from American Impulse-Wheel Co., New York; a large mounted collection of samples of steel and iron drop forgings from The Billings & Spencer Co., of Hartford, Conn.; a sample boiler scale from Mr. O. F. Conover, Toledo, O.; one 3 in. sectional pop safety valve from the Crosby Steam Gage and Valve Co., Boston, Mass.; a large and complete collection of hangers, shafting, clutches and pulleys from the Dodge Mfg. Co., Mishawaka, Ind.; a set of small sections of the Wharton Harrison safety boiler from the Harrison Safety Boiler Works, Philadelphia, Pa.; a special lever and pop safety valve apparatus with steam gauge from the Lunkenheimer Co., Cincinnati, O.; one can of belt dressing from the Ploms Specialty Mfg. Co., Cleveland, O.; sectional models of exhaust steam injector and ejector from Schaffer & Budenburg, Brooklyn, N. Y.; a model of a universal joint from the Vanderbeek Tool Works, Hartford, Conn.

Besides the foregoing, acknowledgment is made for loan of a six horse power gas engine by the Springfield Gas Engine Co., Springfield, O.; a six horse power oil engine from the Aultman Co., of Canton, O.; a hardness testing machine, by Mr. W. J. Keep, Detroit, Mich.

Acknowledgment is made for samples of belting and belt fastenings presented by the following companies: Boston Belting Co., Boston, Mass.; Belting Co., Cincinnati, O.; Carton Belting Co., Quincy, Mass.; Detroit Oak Belting Co., Detroit, Mich.; Diamond Drill & Machine Co., Birdsboro, Pa.; Diamond Rubber Co., Akron, O.; Oliver P. Clay Co., Cleveland, O.; Fayerweather & Ladew, New York, N. Y.; The Malin & Co., Cleveland, O.; Chicago Rawhide Mfg. Co.; Chicago, Ill.; New York Belting and Packing Co., New York, N. Y.; Page Belting Co., Concord, N. H.; Revere Rubber Co., Boston, Mass.; J. E. Rhoades & Sons, Philadelphia, Pa.; Rossendale-Reddaway Belting & Hose Co., Newark, N. J.; Sampson Steel Belt Hook Co., Philadelphia, Pa.; Chas. A. Schieron & Co., New York, N. Y.; Schultze Belting Co., St. Louis, Mo.; William Sumner Belting Co., Tolland, Conn.; W. O. Talcott, Providence, R. I.; and blue prints from the following companies; Atlas Engine Works, Indianapolis, Ind.; Baldwin Locomotive Works, Philadelphia, Pa.; Ball & Wood Co., New York, N. Y.; Bates Machine Co., Joliet, Ill.; C. H. Brown & Co., Fitchburg, Mass.; C. & G. Cooper Co., Mt. Vernon, Ohio; W. D. Forbes & Co., Hoboken, N. J., Hooven, Owens & Rentschler, Hamilton, O.; Fraser & Chalmers, Chicago, Ill.; Lane & Bodley, Cincinnati, O.; Mason Regulator Co., Boston, Mass.; Nordberg Mfg. Co., Milwaukee, Wis.; Philadelphia Engineering Works, Ltd., Philadelphia, Pa.; Ross Valve Co., Troy N. Y.; Watertown Steam Engine Co., Watertown, N. Y.; Vilter Mfg. Co., Milwaukee, Wis.; Watts-Campbell Co., Newark, N. J. Cuts of different styles of air compressers were presented by The Rand Drill Co., and descriptive catalogues were sent by The C. W. Hunt Co., of New York, N. Y.; The Ridgway Dynamo & Engine Co., of Ridgway, Pa.; B. F. Sturtevant Co., Boston, Mass., and the R. D. Wood Co., of Philadelphia, Pa.

## ESTIMATES.

The following are the estimates for the year ending June 30, 1901:

Salaries .....	\$167,760 00
Bonds and interest.....	40,037 50
Expenses of trustees.....	600 00
Fuel and lights.....	8,500 00
General repairs .....	5,500 00
Maintenance and repairs heat, light and power plant.....	4,200 00
Printing and advertising.....	3,000 00
Roads and grounds.....	1,500 00
Virginia military lands.....	3,500 00
Residence for astronomer.....	2,250 00
Library .....	5,500 00
Chemical store room supplies.....	4,250 00
Water rates .....	1,200 00
Department apparatus and supplies.....	24,985 00
Incidentals .....	4,500 00

Total ..... \$277,282 50.



Which will be amply met by the anticipated income of the university.

The reports of the president, the librarian and the treasurer are filed herewith and made a part of the report.

Respectfully submitted,

ALEXIS COPE, Secretary.

## REPORT OF THE PRESIDENT.

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*Hon. J. McLain Smith, President of the Board of Trustees, Ohio State University,*

DEAR SIR:— I have the honor to submit herewith the annual report of the President of the University for the year ending June 30th, 1900.

The year has been marked by a most cordial cooperation of the Faculty with the President in carrying forward the work of the University. The routine work of the University has suffered no interruption worthy of note in this connection. The instruction in the various departments has been of a high grade and the results of the year are most gratifying to the friends of education.

The death of Professor Edward Orton, Ph. D., LL. D., which occurred on the sixteenth day of October, 1899, removed from the University one of the most beloved instructors the University has ever had. Dr. Orton was the first president of the University, serving in that capacity from 1873 until 1881 when he voluntarily resigned the executive duties to continue in the work of teaching. He remained as Professor of Geology until his death. Few men in Ohio have made so deep an impression upon their students. His noble character, his broad and accurate scholarship, his sympathy with students and his untiring devotion to his work united to make Professor Orton not only a commanding figure among the educational forces of the country but a man beloved by all who knew him. He served as state geologist from 1869 until his death with conspicuous ability. The University has published in pamphlet form the addresses delivered at the memorial services held in the University Chapel, Sunday, November 26th, 1899.

The enrollment of students for the year was the largest in the history of the University and reached the number twelve hundred and fifty-two. Of this number eleven hundred and ninety-seven were from the state of Ohio, representing eighty-seven counties, and the remaining fifty-five were from eleven different states of the Union, from the province of Ontario, from the District of Columbia and from Cuba. The widespread territory from which the University draws its students is a matter of interest and satisfaction.

Among the changes pertaining to the Faculty I note the change of rule made by the Trustees providing for an advance in rank of teachers. Hitherto it has been the custom to bring a teacher to the rank of full professor only when he was the head of a department and had earned the right to such a rank by conspicuous scholarship and success in his work. The new rule provides that men may come to the rank of full

professor without the necessity of creating new departments when the demands within the department and the experience and success of the teacher render the promotion desirable. This makes it possible to give to men who have devoted their lives to instruction a suitable rank and title when appropriate. This action is commended by the Faculty and cannot fail to produce good results in the future. For the changes in titles in the Faculty to take effect July 1st, 1900, reference is made to pages 25 and 26 of part second of this report.

The University battalion has, for the year, been under the efficient supervision of Major James Madison Burns, U. S. A., retired. During the year a considerable increase in the equipment was provided by the War Department. It was with deep regret that we learned of Major Burns' desire to be relieved of duty at the Ohio State University in order to accept a similar position at the University of West Virginia. Upon request of the Board of Trustees, Captain George L. Converse, U. S. A., retired, was detailed to serve in this position.

At the Commencement, June 13th, the University conferred one hundred and thirty-seven degrees. A detailed account of these degrees will be found in the report of the Secretary of the Board of Trustees.

#### THE GROWTH OF THE UNIVERSITY.

The year just closed has been marked by the largest attendance in the history of the University. This fact has brought clearly to view the needs of the immediate future. Notwithstanding the fact that the past five years have witnessed a very considerable development in the buildings of the University it is plain that a greater development is now a pressing necessity.

The legislature in session during the year with great unanimity provided for a special levy of five one-hundredths of a mill in addition to the levy heretofore made with the provision that the proceeds of the additional levy should be used for the construction of buildings. This will provide for a building for the College of Law and for a building for the department of Physics. These buildings have been a necessity for some time and their erection will prove a great relief to the present crowded quarters now much in demand for other purposes.

In the matter of other new buildings it is difficult to decide which are most needed. With no attempt to settle the question of priority I beg to suggest that the growth of the College of Engineering will soon make it impossible to provide for so large a number properly without a building of suitable plan and size. The need of a building for a library is evident to all departments. The equipment of the University in this particular is entirely too meager to satisfy the reasonable demands, to say nothing of the importance of providing first class facilities.

The departments of Botany and Horticulture need better facilities and the efficiency of the departments will be crippled to a considerable degree until the limitations are removed.

The development of interest in Veterinary Medicine — especially in sanitary lines — has shown that an increasing demand for educated veterinarians may be expected. About half of the graduates of this College are now in the service of the United States. To carry on the work of this College as it ought to be done it will be necessary to provide for advanced scientific work, which can not be done with the present facilities. Suitable buildings are the foundation for the work to which I refer.

#### A WOMAN'S BUILDING.

The need of a woman's building is apparent to every one. The provision by law for women at the University does not wholly meet the needs. Something ought to be done to make provision for young ladies upon the campus for a general headquarters and for a home. The increase of students has made the difficulty of securing suitable accommodations for young ladies greater. The attendance of women is hindered by the lack of accommodations. It would seem that when the state has provided the means of education it might be well to make them more available.

#### THE ENLARGEMENT OF BUILDINGS.

It is not possible to foresee the growth of a university. Already the University has outgrown the expectations of many of its friends. The present roll of students taxes to the utmost the buildings. In the case of Hayes Hall the present accommodations for the department of drawing are insufficient and overcrowded. At least ten thousand dollars should be expended in the enlargement of this building. Plans for enlargement have been suggested by Professor Bradford that are in harmony with the architectural design. These additions would greatly increase the efficiency of the department.

The Chemical Hall has already proved too small. The freshman class of the present year, to the number of two hundred and sixty, was required to pursue the study of Chemistry. In addition to this may be mentioned all the advanced and elective work. Any further increase in students will render the building entirely inadequate to meet the needs. An addition of at least one hundred feet to the north of the present structure should be made.

The lack of funds for these needed enlargements and improvements makes the problem of administration more embarrassing as the patronage of the University increases.

#### THE DEPARTMENTS.

The several departments of the University find as the University grows an increasing demand for larger and more complete equipment. The growth and efficiency of a university depends to a large degree upon the condition of its material equipment. In an institution like the State University where scientific and technical education is so prominent there is no practical limit to the money that may be wisely expended in improv-



ing the facilities for education. The growth of the Ohio State University has been very commendable in this particular owing to an intelligent and liberal supervision of the Trustees. However, with every new year new needs arise. I cannot make mention now of the detailed needs in the departments, but make special mention of the fact that the department of electrical engineering needs a considerable equipment in the way of new machinery. In electrical apparatus it is both desirable and necessary that the latest improvements be a part of the equipment. This is an item of considerable expense as the machinery is seldom worn out but usually replaced by newer and better patterns.

In the department of Astronomy considerable progress has been made during the past year in the material equipment. The work has developed the need of a zenith telescope, such as could be purchased for ten or twelve hundred dollars; a house for the same at the cost of about five hundred dollars; a sidereal chronometer at a cost of one hundred dollars; three theodolites at a cost of about one thousand dollars and some smaller items. The importance of astronomical science and the place taken by the University through the efficiency of Professor H. C. Lord abundantly warrant the additional equipment so much needed.

I beg to submit a statement from Prof. J. R. Smith as follows:

"The Board of Trustees has recognized the claims of aesthetics on the institution by adopting a general plan of grounds and buildings, laid down by a professional expert; to which the arrangement must conform; and although opinions must be permitted to differ as to the success of details, there can be no question as to the necessity of some such general plan.

I would respectfully urge the equal claim of the fine arts, historically considered, to recognition at the hands of those who govern the affairs of this growing institution. Architecture, sculpture and painting have been too closely connected with the advance of civilization to be ignored in any schemes of study which deal with the achievements of man in history; and the great improvements and multiplication of reproductive processes have made it possible to present to the eyes of students, in orderly succession, the history of these arts (especially of the first two) with a graphic success not achieved before. The teaching of language, literature, history, architecture and engineering would be much helped and stimulated by access to an even moderately equipped museum containing reproductions of the masterpieces of art."

"The following suggestions towards a working plan are herewith respectfully submitted:

1. In one of the new buildings now contemplated, or in those portions of University Hall soon to be vacated by the College of Law and the Department of Physics, let a room, with office attached, be set aside for a museum of art. To prepare this room properly (as to light,

wall-color, etc.) would cost no more than for any other university purpose.

2. With an appropriation of from \$500 to \$1,000 a small but educationally valuable collection of plaster casts and photographs could be purchased as the permanent nucleus of the proposed museum. There are also scattered through the various buildings a number of such objects, whose custodians might be glad to transfer them to such a room, where they could have proper care.

3. The care of the collection might, for the present, be vested in an individual or a committee of the Faculty; who should have full charge of the arrangement of the objects in the museum, the purchase of all art-works, and the right to accept or decline any gifts."

I cheerfully join in the suggestions and recommendations made by Professor Smith and call attention to the importance and desirability of developing the plan outlined.

#### THE DEPARTMENT OF MECHANICAL ENGINEERING.

During the current year Professor Stillman W. Robinson whose term of service dates from 1878 has made a generous contribution to the department in which he has served so conspicuously. By adding to the equipment for experimental engineering one of the best appointed testing boilers manufactured, Professor Robinson has not only greatly increased the facilities for work but has earned the grateful recognition of the University for his generosity.

#### CONCLUSION.

In concluding this report I cannot refrain from an expression of appreciation of the fidelity manifested by the Trustees in administering the trust reposed in them. It is also a pleasure to note the increasing appreciation of the work of the University by the people of the State.

My personal acknowledgment is due for the cordial reception given me at the beginning of my work and for the hearty cooperation of both the Trustees and Faculty in carrying it forward.

Very respectfully,

W. O. THOMPSON.

TABLE I—THE WORK OF INSTRUCTORS, 1899-1900.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory					
	First Term	Second Term	Third Term	First Term	Second Term	Third Term	First Term	Second Term	Third Term
AGRICULTURE.									
Breeds of Live Stock (8)†.....	3			2	2		32		
Principles of Breeding (9).....		3			2			30	
Stock feeding and Hygiene (10).....			3			2			35
Farm Equipment (11).....	3			2			19		
Soils (12) .....		3			2			20	
Farm Crops (13).....			3			2			16
Butter Making and Cheese Making (15).....		2			8			14	
Dairy Farming (5).....		2			2			23	
Butter Making and Cheese Making (6).....					16			23	
Butter Mak'g and Cheese Mak'g (7, 15).....		2			8			23	
Special .....				1	1			8	
Thesis .....					2	2	8	8	8
AGRICULTURAL CHEMISTRY.									
Principles, Nomenclature, etc. (1).....	2			36			55		
Organic Chemistry (8).....		2			36			55	
Applications of Chemistry to Agr. (9).....			2			36			49
Laboratory (4) .....		2		36	36	36	13	13	5
Chemistry of Milk and Milk-testing (7).....		2						22	
ANATOMY AND PHYSIOLOGY.									
Human Anatomy and Physiol. (1, 51, 52).....	6	6	6	5	5	4	73	66	72
General Physiology (2).....			3			1			11
Histology and Hist-Chemistry (59, 4).....	2	2	2	10	10	10	13	12	12
Physiological Laborat'y (53, 54, 55, 56).....	1	1	2	10	7	10	9	10	13
Bacteriology .....		2			8			57	
Microscopy (5, 58).....			1			3			13
Thesis and Similar Work.....				3	3	3	6	6	6
Chemical Physiology (3).....			1			6			7
ASTRONOMY.									
Astronomy and Geodesy (2).....	4		4				7		11
General Astronomy (52).....			5						7
Advanced Astronomy (55, 56).....	2						2		
Astronomy (54) .....		5						1	
Meteorology (60) .....			2						18
Thesis and similar work.....									

† The figures in brackets are the department numbers—for which see Part II of this report

TABLE I—THE WORK OF INSTRUCTORS, 1899-1900—Continued.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory					
	First Term	Second Term	Third Term	First Term	Second Term	Third Term	First Term	Second Term	Third Term
BOTANY.									
Physiological Botany (6).....	3			8			29		
Medical Botany (4).....					4			3	
Medical Botany (56).....					4			9	
Systematic and Physiological Bot'y (55)	2			8			18		
Physiological Botany (53, 6a).....	3			4			12		
Physiological and Economic Botany (7)		3			8			27	
Laboratory Work (57, 58, 60, 64, 66)...				6		10	11		13
Elementary Botany (1).....			3			12			65
Economic Bot'y and Veg. Pathology (8)			3			8			22
Spe'al and Adv'ed Work (59, 61, 63, 65)				10			5		
CLAY WORKING AND CERAMICS.									
Ceramic Chemistry (8, 3).....			1		10	15		1	5
Lectures (4).....	5						3		
Analysis of Clays and Minerals (2).....		1			15			7	
Lectures (6).....			5						4
Analysis of Glasses and Glazes (1, 7)...	1			15			7		
Manufacture of Bricks (5).....		5						3	
Thesis and Similar Work.....				20	30	25	1	2	2
Laboratory (9, 10, 11).....				20	20	10	2	2	1
Cement Lectures (12).....		5						12	
Ceramic Structures (13).....		1			4			2	
CHEMISTRY.									
Elementary (51, 52).....	3	3		7	7		58	62	
Elementary (7).....	11	11		62	61		204	152	
Qualitative Analysis (12).....			1			18			37
Qualitative Analysis (53).....	1			4			10		
Quantitative Analysis (55, 56, 4).....	2	2	3	18	18	15	16	15	20
Organic (57, 58, 8, 9).....	5	1	1		8	5	15	13	13
Advanced Chemistry (59, 60).....				4	4		6	5	
Applied Chemistry (16).....		4						4	
Toxicology (11).....			4						7
Thesis and Similar Work.....					6			8	
Inorganic Preparations (61a, 17).....	1			6			7		
Sanitary Analysis (15).....			2			5			7
CIVIL ENGINEERING.									
Land surveying (1).....	10			30			29		
Topography (4).....		1			15			22	
Railroad Surveying (2).....			10			30			21
Topographical Surveying (3).....	1			10			8		
Working Drawing in Ry. Const'n (5)...		$\frac{1}{2}$			15			11	
Stereotomy (6).....		3			15			13	
Bridge Strains (7).....			5						12



TABLE I—THE WORK OF INSTRUCTORS, 1899-1900—Continued.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory					
	First Term	Second Term	Third Term	First Term	Second Term	Third Term	First Term	Second Term	Third Term
CIVIL ENGINEERING—Concluded.									
Bridge Designing (8).....	2½	.....	.....	10	.....	.....	5	.....	.....
Civil Engineering Laboratory (14).....	.....	.....	.....	.....	12	.....	.....	7	.....
Sanitary Engineering (10).....	.....	.....	5	.....	.....	.....	6	.....	8
Masonry Construction (15).....	5	.....	.....	.....	.....	.....	6	.....	.....
Highways (16).....	.....	5	.....	.....	.....	.....	10	.....	.....
Water Supply (18).....	.....	5	.....	.....	.....	.....	7	.....	.....
Trusses (19).....	.....	.....	2	.....	6	.....	.....	.....	9
Surveying (21).....	.....	.....	2	.....	4	.....	.....	.....	8
Thesis and Similar Work.....	.....	.....	.....	8	5	10	5	5	5
Roof Trusses (20).....	2	.....	.....	6	.....	.....	1	.....	.....
DOMESTIC SCIENCE.									
Domestic Economy (7, 8, 9).....	1	1	1	6	6	6	7	7	8
Domestic Economy (1, 2, 3).....	1	2	1	12	12	12	23	18	17
Domestic Economy (4, 5, 6).....	1	1	1	6	6	6	19	15	16
Domestic Economy (10).....	.....	.....	1	.....	.....	.....	.....	.....	21
DRAWING.									
Freehand Drawing (1).....	.....	.....	.....	20	20	7	206	175	17
Lettering (2).....	.....	.....	.....	.....	18	.....	.....	.....	134
Mechanical Drawing (3).....	2	4	3	10	12	12	99	92	80
Draughting and Blue Printing (4).....	.....	1	.....	.....	4	.....	.....	5	.....
Photography (7).....	1	.....	2	4	.....	8	14	.....	25
Mechanical Drawing (8).....	1	1	.....	2	2	.....	9	7	.....
Mechanical Drawing (10).....	2	.....	.....	4	.....	.....	52	.....	.....
Mechanical Drawing (11).....	.....	1	.....	.....	8	.....	.....	1	.....
Clay Modeling (12).....	.....	.....	.....	.....	4	4	.....	5	4
Pen Drawing (14).....	.....	.....	.....	4	.....	4	5	.....	9
Domestic Architecture (15).....	.....	1	1	.....	4	2	.....	12	9
Technical Drawing (5).....	1	.....	.....	6	.....	.....	20	.....	.....
Orders of Architecture (1).....	.....	2	.....	.....	6	.....	.....	4	.....
Styles of Architecture (2).....	.....	.....	2	.....	.....	6	.....	.....	4
Decoration and Ornament (5).....	.....	1	.....	.....	4	.....	.....	1	.....
Drawing (19).....	.....	.....	1	.....	.....	9	.....	.....	26
Architecture (6).....	.....	.....	2	.....	.....	6	.....	.....	1
Architecture (8).....	.....	.....	2	.....	.....	6	.....	.....	1
Arts (17, 18).....	1	1	.....	2	4	.....	12	16	.....
Architecture (3).....	1	1	1	8	8	8	1	1	1
Architecture (4).....	2	.....	.....	.....	.....	.....	1	.....	.....
Architecture (7).....	.....	3	.....	.....	4	.....	.....	1	.....
Drawing (16).....	.....	.....	1	.....	.....	4	.....	.....	14

TABLE I—THE WORK OF INSTRUCTORS, 1899-1900—Continued.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory			First Term	Second Term	Third Term
	First Term	Second Term	Third Term	First Term	Second Term	Third Term			
*ECONOMICS.									
Elements of Political Economy (51, 52)	4	4	....	2	2	....	64	80	....
Practical Problems in Economics (55)...	2	....	....	....	....	....	28	....	....
Industrial and Social Reforms (56).....	....	2	....	....	....	....	....	33	....
Ind'ial and Fin'ial His'y of the U. S. (60)	....	2	....	....	....	....	....	21	....
Seminary (61, 62).....	2	2	....	....	....	....	11	11	....
Industrial Society (53).....	2	....	....	....	....	....	21	....	....
Sociology and Statistics (63, 64).....	1	1	....	4	....	....	12	11	....
Commercial Geography (65).....	2	....	....	....	....	....	10	....	....
Thesis .....	....	....	....	2½	5	....	10	10	....
Socialism (54) .....	....	2	....	....	....	....	....	17	....
ELECTRICAL ENGINEERING.									
Electrical Engineering (2).....	5	5	5	....	....	....	10	10	10
Electrical Designing (3).....	....	....	....	6	6	6	9	10	10
Electrical Laboratory (4).....	....	....	....	9	9	9	9	7	10
Electrical Engineering (6).....	2	2	....	....	....	....	24	20	....
Electrical Engineering (7).....	....	....	....	12	12	....	24	20	....
Thesis .....	....	....	....	....	....	2	....	11	11
Special .....	....	....	....	....	....	6	....	....	2
*ENGLISH LITERATURE.									
Introduction to Eng. Literature (51, 52)	8	8	....	....	....	....	76	42	....
The English Bible (55, 56).....	1	1	....	....	....	....	15	14	....
Shakespeare (57) .....	3	....	....	....	....	....	12	....	....
The Modern Novel (59).....	6	....	....	....	....	....	32	....	....
From Dryden to Johnson (61).....	2	....	....	....	....	....	7	....	....
Chaucer (67) .....	2	....	....	....	....	....	8	....	....
Masterpieces (65, 66) .....	3	3	....	....	....	....	13	11	....
Thesis Work .....	....	....	....	2	7	....	5	8	....
Literary Problems (69, 70).....	2	2	....	....	....	....	10	9	....
Victorian Prose (71).....	3	....	....	....	....	....	11	....	....
Elizabethan Drama (58).....	....	3	....	....	....	....	....	13	....
The Drama Since the Restoration (60)...	....	2	....	....	....	....	....	22	....
American Authors (62).....	....	6	....	....	....	....	....	50	....
Victorian Poetry (72).....	....	3	....	....	....	....	....	13	....
*EDUCATION.									
Elementary Educat'l Psychology (51)...	4	....	....	....	....	....	24	....	....
Modern Educational Theories (52).....	....	4	....	....	....	....	....	19	....
History of Education (53).....	4	....	....	....	....	....	13	....	....
The Herbartian Pedagogy (55).....	2	....	....	....	....	....	4	....	....
Philosophy of Education (58).....	....	4	....	....	....	....	....	15	....
Plato's Republic (54).....	....	2	....	....	....	....	....	10	....
Educational Value (67).....	....	2	....	....	....	....	....	11	....
Child Study (59).....	2	....	....	....	....	....	7	....	....
Scientific Method (69).....	2	....	....	....	....	....	....	15	....
Pedagogical Research (72).....	....	2	....	....	....	....	....	5	....

\* Semester work.

TABLE I — THE WORK OF INSTRUCTORS, 1899-1900 — Continued.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory					
	First Term	Second Term	Third Term	First Term	Second Term	Third Term	First Term	Second Term	Third Term
GEOLOGY.									
Elementary Geology (4).....	...	5	...	...	3	...	...	7	...
Cosmical Geology (2, 51).....	5	5	...	2	2	...	44	35	...
Paleontology (53, 54).....	...	...	...	8	18	17	3	6	5
Petrography (55, 56).....	...	...	...	6	6	6	2	2	2
Physical Geography (1).....	...	...	5	...	...	...	...	...	25
Economic Geology (3).....	...	...	5	...	...	...	...	...	11
Field Term .....	...	...	...	...	...	8	...	...	12
GERMAN LANGUAGE AND LITERATURE.									
Elementary German (1, 51, 52).....	16	16	...	...	...	...	143	106	...
Science Reading (2, 53, 54).....	2	2	...	...	...	...	25	18	...
German Literature (4, 55, 56).....	8	8	...	...	...	...	51	51	...
The German Drama (57).....	3	...	...	...	...	...	14	...	...
The German Prose (58).....	...	3	...	...	...	...	...	14	...
Faust I—(59) .....	2	...	...	...	...	...	2	...	...
Deutsche Kulturgeschichte (64).....	...	1	...	...	...	...	...	5	...
Old High German (68).....	2	...	...	...	...	...	2	...	...
Mediaeval Lyrics (62).....	...	2	...	...	...	...	...	4	...
Deutscher Aufsatz (63).....	1	...	...	...	...	...	5	...	...
Middle High German (61).....	2	...	...	...	...	...	7	...	...
Sanskrit (71) .....	2	...	...	...	...	...	1	...	...
Gothic (67) .....	2	...	...	...	...	...	3	...	...
*GREEK LANGUAGE AND LITERATURE.									
Elementary Greek .....	5	5	...	...	...	...	10	9	...
Xenophon's Memorabilia (51).....	4	...	...	...	...	...	37	...	...
Odyssey (52) .....	...	4	...	...	...	...	...	34	...
Lysias (53) .....	4	...	...	...	...	...	17	...	...
Homer (54) .....	...	4	...	...	...	...	...	15	...
Ancient Art (59, 60).....	2	2	...	...	...	...	26	24	...
Attic Drama (68).....	...	2	...	...	...	...	...	8	...
Graduate .....	$\frac{1}{2}$	$\frac{1}{2}$	...	...	...	...	1	1	...
*HISTORY AND POLITICAL SCIENCE.									
HISTORY.									
General History of Europe to close of Middle Ages (51).....	6	...	...	...	...	...	81	...	...
From close of Middle Ages to French Revolution (52) .....	...	6	...	...	...	...	...	69	...
Political and Constitutional History of England to the Accession of the Stuarts (53) .....	3	...	...	...	...	...	28	...	...

\* Semester work.

TABLE I — THE WORK OF INSTRUCTORS, 1899-1900 — Continued.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory					
	First Term	Second Term	Third Term	First Term	Second Term	Third Term	First Term	Second Term	Third Term
*HISTORY AND POLITICAL SCIENCE.									
— Concluded.									
HISTORY.									
From Accession of Stuarts to Present Time (54) .....		3						19	
Political and Constitutional History of United States (55, 5, 56).....	8	8					63	46	
History of Europe from 1789 to 1815 (57).....	3						7		
History of Europe since 1815 (58).....		3						10	
History of European Colonies (67, 70) ..	2	2					6	6	
Pro-Seminary (61, 62).....	2	2					18	18	
American Colonial History (63).....		3					45		
United States Colonial and Constitutional History (64).....		3						48	
Historical Bibliography (72).....		1						26	
POLITICAL SCIENCE.									
International Law (51).....	2						29		
Municipal Government (52).....		2						21	
Political Institutions of the United States (53) .....	3						30		
Comparative Political Institutions of Europe and America (54).....		3						26	
History of Diplomacy (56).....		2						21	
Thesis Work .....				4	4		14	14	
HORTICULTURE.									
Elements of Horticulture (1).....	2	2	2	4	4	4	22	6	17
Pomology and Viticulture (5).....	2			4			4		
Vegetable Gardening and Seed Growing (6) .....		3			2			15	
Small Fruit Culture (7).....			3			3			10
Elements of Floriculture (8).....	1			2			4		
Commercial Floriculture (9).....		2			2			8	
Home Flower Gardening (10).....			1			2			5
Arboriculture (11) .....	2			2			8		
Forestry (12) .....		2			2			9	
Landscape Gardening (13).....			1			2			7
Special .....		2			1			2	
INDUSTRIAL ARTS AND SHOPWORK.									
INDUSTRIAL ARTS.									
Advanced Designing (4).....				6	6	6	1	1	1
Machine Design (7).....						6			6
Workshop Appliances (5).....			6						8
Shop Equipment (3).....	3	3	3				1	1	1

\* Semester work.



TABLE I—THE WORK OF INSTRUCTORS, 1899-1900 — Continued.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory					
	First Term	Second Term	Third Term	First Term	Second Term	Third Term	First Term	Second Term	Third Term
SHOPWORK.									
Carpentry and Pattern Making (7, 1).....				10	9	16	44	37	46
Forging (11, 2).....				10	13	12	39	45	35
Foundry Work (3).....				4			30		
Chipping and Filing (4).....				10	6	6	25	40	19
Machine Work (13).....				6	6	6	9	3	19
Advanced Machine Work (14).....				6	6	6	8	4	2
Advanced Pattern Making (9).....						6			2
Advanced Forging (12).....						6			2
Advanced Machine Work (15).....				4	8	6	1	4	6
Cabinet Work (8).....					6			11	
Thesis .....								5	3
*LATIN.									
Cicero, Livy (51).....	8						62		
Plautus, Terence (52).....		8						56	
Horace (53) .....	8						31		
Juvenal, Pliny (54).....		8						26	
Roman Historians (55).....	3						11		
Elegiac Poets (56).....		3						12	
Pharmaceutical (1, 59, 60).....	5	5					22	15	
Thesis and Similar Work.....					2			1	
Prose Composit'n and Tr'slat'n (63, 64).....	2	2					10	5	
Greek and Roman Antiquities (67).....	2						7		
MATHEMATICS.									
Elementary Algebra (1).....	5						13		
Elementary Algebra (2).....	5	5	5				17	19	15
Plane Geometry (3, 3a).....	10	5					30	25	
Solid Geometry (13).....		10						40	
Plane Trigonometry (14).....	25		10				182		29
Analytical & Spherical Trigonom't'y (15).....		10						141	
College Algebra (16).....		15						146	
Plane Analytics (17).....			25						129
Space Analytics (18).....	20						98		
Differential Calculus (19).....		20						86	
Integral Calculus (20).....			20						80
Differential Equations (11).....	2						19		
Least Squares (8).....	2						11		
*MATHEMATICS.									
College Algebra (67).....	15						119		
Problems on all Past Work (65, 66)....	1	1					4	3	
Advanced Mathematics (63, 64).....	5	5					10	5	
Trigonometry (68).....		12						87	
Special .....		5						4	

\* Semester work.

TABLE I—THE WORK OF INSTRUCTORS, 1899-1900—Continued.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory					
	First Term	Second Term	Third Term	First Term	Second Term	Third Term	First Term	Second Term	Third Term
MECHANICAL ENGINEERING.									
Mechanism (3) .....	10	5	.....	.....	.....	4	20	25	9
Analytical Mechanics (6).....	10	10	.....	.....	.....	.....	26	25	.....
Strength of Materials (7).....	.....	.....	5	.....	.....	.....	.....	.....	24
Thermodynamics (8) .....	5	.....	.....	.....	.....	.....	18	.....	.....
Prime Movers (9).....	.....	5	.....	.....	.....	.....	.....	19	.....
Machinery and Millwork (10).....	.....	.....	5	.....	.....	.....	.....	.....	19
Experimental Laboratory (12, 13, 14, 15, 16, 17).....	.....	1	.....	12	12	10	14	16	14
Machine Design (18).....	5	5	.....	.....	.....	.....	9	9	.....
Hydraulic Machinery (20).....	.....	.....	3	.....	.....	.....	.....	.....	9
Timber and Masonry (22).....	.....	5	.....	.....	.....	.....	.....	8	.....
Experimental Eng'ring Laboratory (25)	.....	.....	.....	.....	.....	10	.....	.....	6
Experimental Eng'ring Laboratory (28)	.....	.....	.....	.....	.....	4	.....	.....	7
Materials of Construction (23).....	5	.....	.....	.....	.....	.....	8	.....	.....
Power Plants (32).....	.....	.....	5	.....	.....	.....	.....	.....	12
Graduate Work .....	4	4	.....	10	10	6	4	3	1
Care of Boiler and Engine.....	.....	1	.....	.....	.....	.....	.....	26	.....
Theses (21) .....	.....	.....	.....	2	6	20	10	9	9
METALLURGY AND MINERALOGY.									
Metallurgy (4) .....	5	5	.....	.....	.....	.....	15	12	.....
Metallurgical Laboratory (5).....	1	1	1	10	10	10	28	19	25
Ore Dressing (8).....	2	.....	.....	.....	10	.....	4	.....	.....
Assaying (6) .....	.....	1	.....	.....	10	.....	.....	14	.....
Mineral Chemistry (9).....	.....	.....	5	.....	.....	.....	.....	.....	4
Mineralogy (2) .....	.....	.....	3	.....	.....	.....	.....	.....	65
Determinative Mineralogy (3).....	.....	.....	.....	.....	.....	10	.....	.....	7
Thesis and Similar Work.....	.....	.....	.....	.....	.....	3	.....	.....	3
Metallurgical Construction (7).....	.....	1	.....	.....	10	.....	.....	4	.....
MILITARY TACTICS AND SCIENCE.									
Military Drill .....	.....	.....	.....	.....	.....	.....	400	344	281
Tactics .....	.....	2	.....	.....	.....	.....	.....	86	.....
MINE ENGINEERING.									
Mine Surveying (1).....	5	.....	.....	9	.....	.....	8	.....	.....
Ventilation and Haulage (2).....	.....	5	.....	.....	3	.....	.....	5	.....
Mine Engineering (5).....	5	5	5	2	3	1	5	5	5
Mine Operating (3).....	.....	.....	5	.....	.....	2	.....	.....	4
Mine Surveying (4).....	5	.....	.....	9	.....	.....	3	.....	.....
Mine Engineering (6).....	.....	.....	1	.....	.....	8	.....	.....	4

TABLE I—THE WORK OF INSTRUCTORS, 1899-1900 — Continued.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory					
	First Term	Second Term	Third Term	First Term	Second Term	Third Term	First Term	Second Term	Third Term
<b>PHARMACY.</b>									
Pharmacy (6) (7).....	3	2			10		21	8	...
Dispensatories (8).....			2			10			18
Pharmaceutical Chemistry (9).....	3			10			8		
Extemporaneous Chemistry (10).....		2			10			8	
Lectures and Dispensing Practice (11).....			2			10			8
Materia Medica (12) (13).....	3	3					11	9	
Materia Medica and Therapeutics (14).....			3						7
Pharmaceutical Assaying (15).....	2			10			8		
Methods of Manufacture (16).....		2			10	10		8	
Pharmacy (18) (Vet. Students).....			5						4
Special (17).....					10			1	
<b>*PHILOSOPHY.</b>									
Psychology (51).....	4						45		
Psychology (53).....	3						46		
Logic and Ethics (52).....		4						45	
Logic (54).....		6						43	
History of Modern Philosophy (56).....		3						14	
His. of Ancient and Medieval Phil. (57).....	3						4		
Advanced Work (59) (60).....	2	2					6	5	
Physiology & Exp. Psychology (61) (62).....	2	2			4		8	5	
Study of Religion (63) (64).....	4	2					3	3	
Special.....	6	1					1	1	
Ethics (55).....	3						13		
<b>PHYSICAL EDUCATION.</b>									
Young men.....				44	44	44	564	564	564
Young women.....				16	16	16	85	85	85
<b>PHYSICS.</b>									
Elementary Physics (1).....	10	10					101	81	...
Mechanics and Heat (2) (51) (52).....	7	7	6				131	116	108
Problems (3).....	2	2	2				31	24	24
Electricity and Magnetism (4).....	3						11		
Physical Laboratory.....				45	45	45	13	60	56
Mechanics, Sound and Heat (53).....	1			12			26		
Electricity and Magnetism (54).....		1			10			26	
Special.....		2						4	
<b>*RHETORIC AND ENGLISH LANGUAGE.</b>									
Paragraph Writing (51) (5).....	30						385		
Practical Rhetoric (5) (52).....		27						364	
Analysis of Prose (53) (54).....	8	8					38	47	
Advanced Rhetoric (3) (63) (64).....	4	4					79	68	

\* Semester work.

TABLE I—THE WORK OF INSTRUCTORS, 1899-1900 — Continued.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory					
	First Term	Second Term	Third Term	First Term	Second Term	Third Term	First Term	Second Term	Third Term
*RHETORIC AND ENGLISH LANGUAGE.									
— Concluded.									
Rapid Writing (55) (56).....	1	1	....	4	4	....	33	33	....
Brief Making and Argument (57).....	3	2	....	....	....	....	23	....	....
Short Stories (60).....	....	2	....	....	....	....	....	21	....
Poetics (59).....	2	....	....	....	....	....	16	....	....
Studies in Exposition (58).....	....	3	....	....	....	....	....	18	....
Rhetorical Theory & Criticism (61) (62).....	2	2	....	10	10	....	14	11	....
Teacher's Course (67) (68).....	2	2	....	....	....	....	47	40	....
History of the English Language (69).....	2	....	....	....	....	....	58	....	....
Old English (71) (72).....	2	2	....	....	....	....	25	22	....
Middle English Philology (73).....	2	....	....	....	....	....	7	....	....
Historical English Grammar (74).....	....	2	....	....	....	....	....	5	....
Development of Prose (70).....	....	2	....	....	....	....	....	40	....
Extempore Speaking (75) (76).....	2	2	....	....	....	....	22	19	....
*ROMANCE LANGUAGES.									
FRENCH									
Elementary French (1) (51).....	16	....	....	....	....	....	173	....	....
Modern Prose and Plays (1) (52).....	....	16	....	....	....	....	....	140	....
Modern French Literature (55) (56) (2).....	8	8	....	....	....	....	71	65	....
Recent French Prose Writers (58).....	....	3	....	....	....	....	....	15	....
Advanced Prose Composition (59) (60).....	1	1	....	....	....	....	12	11	....
French Comedy (57).....	3	....	....	....	....	....	16	....	....
French Seminary (63) (64).....	3	3	....	....	....	....	10	8	....
Thesis and Similar Work.....	....	....	....	2	2	....	....	....	....
Scientific French (53) (3) (54).....	2	2	....	....	....	....	16	9	....
SPANISH									
Grammar and Readings (51) (52).....	2	2	....	....	....	....	15	16	....
VETERINARY MEDICINE.									
Anatomy (28).....	5	....	....	....	....	....	17	....	....
General Pathology (29).....	....	5	....	....	....	....	....	17	....
Special Pathology (30).....	....	....	5	....	....	....	....	....	17
General Surgery (24).....	....	....	....	10	10	....	6	6	....
Clinic (19).....	....	....	....	12	12	12	11	11	13
Special Pathology (20) (21).....	5	3	....	....	....	....	9	9	....
General Therapeutics (22).....	....	....	5	....	....	....	....	....	6
Lectures and General Pathology (14).....	5	....	....	....	....	....	13	....	....
Osteology (11).....	5	....	....	10	....	....	7	....	....
Meat Inspection (27).....	5	....	....	....	....	....	9	....	....
Special Pathology (15) (16).....	....	5	5	....	....	....	....	10	9
Diseases of the Cow (17).....	....	3	....	....	....	....	....	22	....

\* Semester work.



TABLE I — THE WORK OF INSTRUCTORS, 1899-1900 — Concluded.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory					
	First Term	Second Term	Third Term	First Term	Second Term	Third Term	First Term	Second Term	Third Term
VETERINARY MEDICINE — Concl'd.									
Surgical Diseases and Operations (18)	5	5	.....	.....	.....	.....	6	5	.....
Myology (12)	.....	5	.....	.....	10	.....	.....	6	.....
Neurology (13)	.....	.....	5	.....	.....	.....	.....	.....	6
Principles of Horse-shoeing (26)	.....	.....	5	.....	.....	.....	.....	.....	7
Obstetrics (23)	.....	3	3	.....	2	.....	.....	12	6
Canine Disease (31) (32)	5	3	.....	.....	.....	.....	8	8	.....
Ophthalmology (33)	.....	2	2	.....	.....	.....	.....	9	6
ZOOLOGY.									
Comparative Zoology (1, 51, 52)	4	4	4	8	8	8	86	80	80
Com. Anatomy of Vertebrates (53, 55)	1	.....	.....	12	.....	.....	10	.....	.....
Com. Anatomy of Vertebrates (54, 56)	.....	1	.....	.....	12	.....	.....	6	.....
Zoology and Anatomy (58, 60)	.....	.....	.....	.....	10	.....	.....	5	.....
Economic Entomology (4)	2	2	2	.....	.....	.....	12	11	11
Systematic and Practical Entomology (7)	.....	.....	3	.....	.....	.....	.....	.....	11
Comparative Zoology (64)	.....	2	.....	.....	4	.....	.....	23	.....
Zoology (57)	.....	.....	.....	6	.....	.....	5	.....	.....
Zoology (65)	.....	.....	.....	4	4	.....	2	2	.....

TABLE II—SHOWING THE WHOLE NUMBER OF DEGREES IN COURSE  
CONFERRED SINCE THE FOUNDING OF THE UNIVERSITY.

	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.
Bachelor of arts.....	1	1	6	2	2	1	5	4	6	8	6	1	7	2	6	9	12	19	13	17	18	8	14
Bachelor of philosophy.....				2		2	2	1	1	2	6	7	4	8	8	5	5	19	26	27	27	31	38
Bachelor of science.....	5	5	1	2	5	3	2	4	2	4	4	8	2	10	7	11	7	9	4	10	10	2	7
Bachelor of science in agr.....								1	1				2	3	3			2	4	4	5	5	7
Bachelor of science in chemistry.....																						1	1
Bachelor of science in Dom. Sci.....																							1
Bachelor of science in H., F.....															1	3		1	1	1	2	1	1
Bachelor of Science, Ind. Arts.....																				1	1		
Bachelor of science in Pharmacy.....																							1
Civil engineer.....						1	1	1	3	3	4	1	2	2	7	9	7	9	11	4	8	7	3
Mechanical engineer.....			1		2	4	1	3	1	2	4	2	3	2	5	2	1	2	4	9	5	6	9
Electrical engineer.....															4	9	8	15	17	13	10	7	11
Engineer of mines.....		1	1			1	2	4	1	4	2			1	1	4		1	6	3	2	3	3
Engineer of mines, in Ceramics.....																							1
Graduate in pharmacy.....									3		2	3	6	5	5	3		11	12	11	7		
Master of pharmacy.....																			1		1		
Doctor of veterinary medicine.....									1		1	4		4	5			4	2	3			4
Master of arts.....										1	1	1	2					2		4	4	3	8
Master of science.....			1								1	1	2	2		2			3	3	2	3	3
Master of agriculture.....																		1	2		1		
Master of Science in H. & F.....																				1	1	1	
Doctor of philosophy.....	1																1						
Doctor of science.....												1						1		1			
Bachelor of laws.....														9	18	15		16	6	23	22	21	25
Master of laws.....														2	4	2			6				
Totals.....	6	7	9	8	9	11	12	16	18	24	28	26	30	36	65	79	70	112	118	135	126	99	137

TABLE III—SHOWING THE NUMBER OF STUDENTS IN THE GENERAL TECHNICAL AND PROFESSIONAL COURSES.

	1890-91.	1891-92.	1892-93.	1893-94.	1894-95.	1895-96.	1896-97.	1897-98.	1898-99.	1899-1900.
General Courses (College of Arts) .....	137	151	194	245	256	322	327	358	371	419
Technical Courses (other Colleges except Law)....	166	259	381	368	424	453	453	511	547	603
Professional Courses (College of Law).....	.....	55	67	72	65	100	132	148	191	201
*Graduate students and summer school .....	2	.....	.....	1	.....	94	97	133	75	45
Totals .....	305	465	642	686	745	969	1,019	1,150	1,178	1,268

\* Until 1896, graduate students have been included in the first three classes.

## REPORT OF THE LIBRARIAN.

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*Dr. W. O. Thompson, President Ohio State University,*

DEAR SIR:—The following report on the condition of the university library is herewith respectfully submitted:

### BUILDING AND EQUIPMENT.

The library has this year occupied the entire east end of Orton Hall and the room formerly used as a faculty room in university hall. The room in university hall has been used for the law library. It has been too small to accommodate properly the law students, and it is earnestly recommended that before the opening of the university next fall another and larger room be provided for these books.

The removal of the law lecture room from the first floor of Orton Hall and the tearing down of the temporary partition which divided it from the library has been of the greatest advantage to the work of the library. This change has made possible a complete rearrangement of the books and papers kept on the first floor. The main room is 70' x 40' in size. In the southwest corner there has been provided a temporary work room for the preparation of books for binding, the southeast corner having cases for unbound papers and magazines. The central part is used for the filing of state and municipal documents and the entire north end is devoted to U. S. government documents. In all three parts of the room space has been left for reading tables, and there is no room in the library where more important work is done by students.

The removal of the law books from the balcony has given room for growth in the classes of science and engineering. The books were not rearranged this year, but the entire balcony arrangement will probably be changed by the beginning of next year. This will necessitate the return to the main library of the oak cases taken to the law library. By the removal of the books on geology to the balcony, room is gained on the main floor for one more reading table.

Special credit is given to Mr. McCracken for his solution of the problem of providing light for the tables. By dropping lamps from the ceiling the proper light has been secured, together with freedom in rearrangement of tables, and without the disadvantage of cutting the cork carpet in order to bring the wires up from the floor.

There is still room in the main library for a year's increase in books without encroaching upon the reading room space. Year after next it



will undoubtedly be necessary to put in more cases which will, of course, mean fewer tables. *And this year's use of the library has demonstrated the fact that the reading rooms are already too small.* The problem of how to meet the demands which are certain to be made on the library before there is any possibility of finding relief in a new building, promises to be a very difficult one to solve,—if indeed there can be any solution. The prospects are only too sure that within the next two years, and certainly before three years have expired—which time seems to be the very earliest at which there can be hope of having a new building completed—the library will have to ignore many crying demands because of lack of room.

Such conditions make it imperative that everything be done to secure a library building at the earliest possible moment. To that end the librarian is already engaged in the comparative study of college library buildings. By such a study only can the danger of erecting a building, unsuited to its purpose in some particulars, be minimized. In May of this year a visit of inspection was made to the library of the University of Illinois. The new library building of Princeton University ought to be visited as early next year as possible.

#### BOOKS.

The number of books recorded on the accession books of the library June 30th, 1900, is 35,430. These records show that 7,443 have been added within the last year. As a matter of fact about half of this number were received in the library before the close of last year, but were not recorded because of lack of help and lack of room. Most of these were the U. S. public documents, the gift of which was noted in last year's report. Of all the additions to the library, none has been more valuable than these public documents. Another installment of about six hundred volumes came from Washington in the early spring of this year, after Captain Cope had personally visited the document office and had secured the personal influence of Mr. Ferrel, the superintendent of documents. Between five hundred and six hundred more are expected in the fall when they are returned from Spain by the U. S. Minister. It is a matter of special congratulation that the university was given the first chance of securing these books at the small expense of paying the transportation across the ocean. This is undoubtedly due to the efforts of Captain Cope in securing the interest of Mr. Ferrel.

State and municipal documents are being received constantly, and form a very important part of the library. It has been a source of gratification to the librarian to notice that since the special work in public documents was undertaken in the university library other libraries have begun to see the necessity of having special assistants in charge of this work. The claim is not made that this is due to the uni-

versity's action, but it shows that it is beginning to be recognized that document work is an important line of library activity.

A comparatively large number of gifts have come to the library from private sources. A list of donors accompanies this report.

Special mention should be made of a gift relating to the history of the Quakers in America. Through the interest and active effort of Mr. J. J. Janney of this city, the Miami Quarterly Meeting of the Society of Friends in Ohio has donated a collection of books illustrative of the influence of the Quakers in American history, and especially during the colonial period. When completed the collection will have cost one hundred and fifty dollars, and will be of the highest service as it touches a field of American history in which our library was seriously deficient. In addition, Philadelphia Yearly Meetings of both branches of the Society of Friends have donated a considerable number of volumes of historic and doctrinal character, thus supplementing the gift of the Miami Quarterly Meeting.

Mention has been made in previous reports of the gift of the books from the library of Mr. Wm. Siebert. Most of these books have now been received. In addition to these, there have been purchased by Mr. John Siebert and Mr. Louis Siebert over four hundred dollars' worth of books on German history. These will form the more important part of the "Siebert Library of German History," as the collection is to be called. It is understood that one hundred dollars a year will be furnished by each of these gentlemen for keeping up purchases in this line. None of these books have yet been entered on the library records, since it was desired to wait until all the books had been received, before recording them or putting them on the shelves for use.

Many of the books received from Mr. Wm. Siebert's library have no bearing at all on German history and it is definitely understood that these books, after being duly marked as having been received from him, are to be placed in those parts of the library where they naturally belong. This is the only safe principle to follow in accepting gifts for a library, and should be carefully adhered to. Books on a special subject are naturally kept together so that special collections can well be known by their collector's name, but it should never become a practice to accept libraries composed of books on miscellaneous subjects with the understanding that the books are to be kept together. If that were to be done the university library would soon be in a condition similar to that in which a neighboring college found itself when Wesley's sermons could be found in any part of the room.

During the year circulars have been sent out by the alumni association to alumni residents in Ohio, calling attention to the needs of the library. A copy of the circular is attached to this report.

In the annual report of last year it was said that the chief duty of a university library was "to secure books, more books, and always more

books." This statement should be repeated this year with even greater emphasis.

#### USE.

It is a pleasure to report that the use of the library has increased much more rapidly than has the student body, thus showing that the library is performing a more important part in the educational work of the university.

The great aim of the library is to teach the students the use of books, and all the reference work is directed towards the end of helping the student help himself. Much more time is required for this instructional work than would be used in simply supplying the books or information needed.

It was found necessary this year to place on special shelves the books reserved by professors for required reading. These shelves were not open to the students and each book was taken out on a special card for use in the reading room. Next year it will probably be necessary to limit the time during which one student can use the book, because of the large number of students dependent on one book, the library having very few duplicates.

#### STAFF.

There has been no change in the library staff during the year. Miss Townshend, Miss Kellicott, Miss Jeffrey, Miss Allen and Mr. Guittard all have retained their positions with very few changes in the work for which each is held responsible.

Very respectfully,

OLIVE JONES, Librarian.

## REPORT OF THE TREASURER.

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COLUMBUS, OHIO, *June 30th, 1900.*

*To the HONORABLE J. McLain Smith, President Board of Trustees of the Ohio State University:*

SIR:— I hand you herewith my annual report for the fiscal year ending the 30th day of June, 1900. This report is accompanied by proper vouchers for all disbursements.

Respectfully,

L. F. KIESEWETTER, *Treasurer.*



## STATEMENT I.

DETAILED STATEMENT OF RECEIPTS BY L. F. KIESEWETTER, TREASURER,  
DURING FISCAL YEAR ENDING JUNE 30, 1900.

Date	From whom received	For what purpose	Amount	Total
1899				
July 3	F. W. Prentiss, Treas.	Balance on hand from former treasurer ...		\$9,088 04
	O. S. U.....	Sale store room cards	\$111 59	
7	Geo. B. Kauffman.....	Merchandise .....	152 07	
	U. S. Treasurer.....	Annuity act of Aug. 30, 1890 .....	25,000 00	
	M. F. Early and Jane Beal .....	Deed act of March 14, 1889 .....	2 00	
	Alfred H. Barnes.....	Deed act of March 14, 1889 .....	2 00	
	Louisa M. Byers.....	Deed act of March 14, 1889 .....	2 00	25,269 66
Aug. 9	B. F. Thomas.....	Ninth and tenth installm't rent 1898-9	85 00	
	Margaret L. Hurles.....	Deed act of March 14, 1889 .....	2 00	
	Thomas Cloud .....	Deed, act of March 14, 1889 .....	2 00	89 00
Sept. 20	Commrs. Sinking Fund.	Int. on endowment...	5,000 00	
	Henry C. Lord.....	Scrap copper sold...	4 25	
	B. F. Carmean.....	Deed, act March 14, 1889 .....	2 00	
	R. W. Funk.....	Dorm. fee, Mr. King	1 50	
	E. E. Harrold, storekpr.	Sale of 100 storeroom cards .....	500 00	
	L. H. Godman.....	Unpaid fees of last year .....	7 50	5,515 25
23	E. E. Harrold, storekpr.	Sale of 100 storeroom cards .....	500 00	
	Nat. Brick Mfrs. Assn.	Endowment scholarship in ceramics...	250 00	
	E. E. Harrold, storekpr.	Sale of 80 storeroom cards .....	400 00	1,150 00
Oct. 20	B. F. Thomas, Secy....	Amt. ret'd. of sub. to A. A. A. S. ....	188 51	
	Alexis Cope, Bursar....	Students' fees .....	13,700 00	
	Commrs. Sinking Fund.	Int. on endowment...	5,000 00	18,888 51
Nov. 10	Auditor of State.....	Req. No. 25, O. S. U. fund .....	14,956 67	
	Auditor of State.....	Req. No. 26, O. S. U. fund .....	33,437 50	
	Honline & West.....	Freight paid by mistake .....	8 70	
	Martha Loister.....	Deed, act March 14, 1889 .....	2 00	
	Margaret Shough.....	Deed, act March 14, 1889 .....	2 00	
	Joseph Smith.....	Deed, act March 14, 1889 .....	2 00	
	S. G. Lindsay.....	Deed, act March 14, 1889 .....	2 00	
	Gen. Elec. Co.....	Credit on account...	2 00	48,412 87
Dec. 1	Ohio Nat'l Bank.....	Proceeds sale 30,000 refunding bonds sold Nov. 9, 1899..		32,705 00
7	Commrs. Sinking Fund.	Int. on endowment...		3,500 00

## STATEMENT I—Continued.

Date	From whom received	For what purpose	Amount	Total
1899				
Dec. 15	Auditor of State.....	Req. No. 27, O. S. U. fund .....		15,110 00
	E. E. Harrold, storekpr.	80 coupon cards sold to students .....	400 00	
	Benj. F. Thomas.....	1st and 2nd installments rent, 1899-1900 .....	85,00	
	Geo. B. Kauffman.....	Ninth and 10th installment rent, 1898-1899; 1st, 2nd & 3rd 1899-1900 .....	225 00	
	Alexis Cope, Bursar....	Students' fees .....	200 00	
	Nora Heath.....	Deed, act of March 14, 1889 .....	4 00	
	Alexis Cope, Bursar....	Fees 38 auditor's tickets .....	38 00	952 00
20	L. H. Houston.....	Deed, act of March 14, 1889 .....	2 00	
	Emerson McMillin.....	Fellowship in astronomy .....	90 00	
	Emerson McMillin.....	Scholarship in economics .....	100 00	192 00
21	M. P. Post.....	Freight and cartage paid for him.....	1 25	
	F. E. Sanborn.....	Freight and cartage paid for him.....	20 54	
	Alexis Cope, Bursar....	Students' fees .....	294 63	316 42
30	Commrs. Sinking Fund.	Interest on endowment .....		3,093 50
1900				
Jan. 11	Auditor of State.....	Req. No. 28, O. S. U. fund .....		14,987 06
Feb. 3	Neal Postlewaite.....	Diploma fee, class of 1899 .....	5 00	
	Paul System Co.....	Credit on account... ..	49 54	
	W. H. Scott.....	Laboratory fees, summer school ...	14 00	
	E. A. Hitchcock.....	Fee for testing boilers .....	10 00	
	C. W. Mesloh.....	7th, 8th, 9th & 10th installment rent, 1898-99; 1st & 2nd, 1899-1900 .....	108 00	
	Alexis Cope, Bursar....	Students' fees .....	4,500 00	
	Commrs. Sinking Fund.	Interest on endowment .....	5,500 00	10,186 54
23	Auditor of State.....	Req. No. 30, O. S. U. fund .....	4,474 17	
	Alexis Cope, Bursar....	Students' fees .....	8,500 00	
	J. W. Stimson.....	Damage to property .....	1 00	12,975 17
Mar. 9	Auditor of State.....	Req. No. 29, O. S. U. fund .....		15,037 72
30	Commrs. Sinking Fund.	Interest on endowment .....	2,750 00	
	Alexis Cope, Bursar....	Students' fees .....	3,800 00	
	B. F. Thomas.....	3rd, 4th, 5th & 6th installments rent, 1899-1900 .....	170 00	
	Alexis Cope, Bursar....	Students' fees .....	200 00	
	Buckeye Engine Co.....	Sale of old engine... ..	450 00	
	F. E. Kester.....	Sale 3 bamboo rods..	15	

## STATEMENT I—Concluded.

Date	From whom received	For what purpose	Amount	Total
1900				
	W. G. Pengelly.....	Pictures of Dr. Or- ton	17 50	7,387 65
April 4	Auditor of State.....	Req. No. 31, O. S. U. fund .....		15,166 74
25	Auditor of State.....	Req. No. 32, O. S. U. fund .....		15,146 17
May 18	Auditor of State.....	Req. No. 33, O. S. U. fund .....		14,981 06
	Auditor of State.....	Req. No. 34, O. S. U. fund .....		7,875 00
22	Geo. B. Kauffman.....	Rent .....	180 00	
	E. E. Harrold.....	Store room cards....	400 00	
	Lewis Merriman.....	Deed, act Mar. 14, 1889 .....	2 00	
	Edw. Orton, Jr.....	Printing memorial ..	19 00	
	W. H. Kinnear.....	Deed, act Mar. 14, 1889 .....	2 00	
	Wm. T. Magruder.....	Use of machinery....	12 30	
	Wm. T. Magruder.....	Broken tools .....	12 76	
	W. H. Scott.....	Lub. oil and deodor- izer .....	34	628 40
31	Ohio National Bank....	Sale of \$10,000 re- funding bonds ....		10,906 00
June 7	C. W. Mesloh.....	1st, 2nd, 3rd, 4th, 5th, 6th install- ments rent, 1899- 1900 .....		108 00
	Edward Orton, Jr.....	Sales of material....	50 00	
	Commrs. Sinking Fund.	Interest on endow- ment .....	6,500 00	
	M. P. Post.....	Test in dept. cera- mics .....	1 25	6,551 25
13	Auditor of State.....	Req. No. 35, O. S. U. fund .....		14,904 06
27	Commrs. Sinking Fund.	Interest on W. J. Bryan fund .....	8 15	
	Commrs. Sinking Fund.	Interest on endow- ment fund .....	1,860 72	1,868 87
	J. A. Bownocker.....	Comm'c't luncheon ..	59 00	
	E. A. Eggers.....	Rent to June 1, 1900	150 00	
	F. E. Sanborn.....	Sale of scrap iron..	36 74	
	Alexis Cope, Bursar....	Diploma fees .....	735 00	
	Alexis Cope, Bursar....	Students' fees .....	665 12	
	Alexis Cope, Bursar....	Auditor's tickets ....	30 00	1,675 86
30	Alexis Cope, Bursar....	Storeroom cash sales and cards .....		950 00
	Total .....			\$315,617 80

## STATEMENT II.

DETAILED STATEMENT OF DISBURSEMENTS BY L. F. KIESEWETTER, TREASURER,  
DURING FISCAL YEAR ENDING JUNE 30, 1900.

Date	To whom paid	For what purpose	No	Amount
1899				
July 1	J. McLain Smith.....	Expenses as trustee....	1	\$5 95
	T. J. Godfrey.....	Expenses as trustee....	2	25 95
3	Wm. Cannan.....	Labor .....	3	11 27
	Kuhn Artificl. Stone Co.	Cement walk (balance) due on contract.....	4	380 00
	Jno. T. Mack.....	Expenses as trustee....	5	18 50
5	Columbus Gas Co.....	Gas .....	6	66 89
6	Hutton Bros.....	Painting .....	7	12 00
	Buckeye H. and L. Co.	Leather .....	8	80
	Blackwood, Green & Co.	Repairs .....	9	3 90
	J. S. Abbott & Co.....	Glass .....	10	2 00
	Fish Stone Co.....	Stone work .....	11	10 00
	Fitzpatrick & Hoepfner.	Closet bowl .....	12	8 55
	F. E. Fleischer.....	Labor .....	13	18 25
	J. C. Perry.....	Labor .....	14	4 23
	Peter Henderson & Co..	Lawn mower .....	15	12 00
	Krauss, B., B. & Co...	Tin roller .....	16	8 40
	Eimer & Amend.....	Scientific apparatus ...	17	20 00
	B. F. Thomas.....	Cash advanced .....	18	15 01
	West'h'se E. & Mfg. Co.	Repairs .....	19	4 00
	Wards Nat. Sci. Est...	Lenckhart charts .....	20	42 00
	Glouster Net & Tw. Co.	Seine .....	21	9 50
	J. S. Teeter.....	Labor .....	22	30 00
	Wm. Roberts .....	Labor .....	23	35 00
	E. Doddington & Co....	Lumber .....	24	2 10
	J. S. Schofield.....	Paint .....	25	4 25
	Sherwood Mfg. Co.....	Repairs .....	26	6 00
	Murphy Iron Works....	Pins .....	27	4 50
	W. H. Case.....	Labor .....	28	30 00
	E. Harrington Son & Co.	Chain .....	29	18 77
	H. Mithoff & Co.....	Strainer cloth .....	30	95
	Columbus Brass Co.....	Castings .....	31	18 00
	W. C. McCracken.....	Cash advanced .....	32	2 00
	New Col. Bridge Co....	Beams, rods, etc.....	33	35 73
	B. D. Potts.....	Hardware .....	34	4 63
	Palmer & Beck.....	Repairs .....	35	50 85
	Lawrence Press Co....	Printing .....	36	4 50
	C. V. Brown.....	Advertising .....	37	5 00
	C. L. Kelly.....	Advertising .....	38	4 00
	J. L. Trauger.....	1200 copies Bot. Bulletin No. 1 .....	39	81 20
	J. N. Bradford.....	Cash advanced .....	40	13 20
	McClelland & Co.....	Ink .....	41	1 80
	Drawing Supply Store..	Supplies .....	42	3 30
	J. M. & W. Westwater.	Electric supplies .....	43	6 10
	General Electric Co....	Electric supplies .....	44	52 00
	F. A. Fish.....	Labor .....	45	12 00
	J. C. Covan.....	Labor .....	46	7 02
	P. Hayden S. Hdw. Co.	Castings .....	47	69 20
	Western Elictric Co....	Electric supplies .....	48	41 39
	Schilling Foundry Co..	Castings .....	49	12 08
	Shoedinger, Fearn & Co.	Bolts, etc.....	50	74
	J. G. Biddle.....	Scientific apparatus ....	51	46 85
	I. B. Colt & Co.....	Magic lantern .....	52	30 00
	F. C. Caldwell.....	Cash advanced .....	53	31 12
	Philip Long.....	Commencem't luncheon and cafe partitions....	54	350 00
	Mrs. Edith R. Hubler..	Extra service as clerk....	55	8 55



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
July 6	Western Electric Co....	Telegrams .....	56	\$4 23
	Tracy Wells Co.....	Jap rods .....	57	2 75
	R. E. McIntosh.....	Labor .....	58	10 80
	M. C. Hunter.....	Labor .....	59	14 32
	H. C. Nidy.....	Labor .....	60	4 65
	Frankenberg Bros.....	Mailing tubes .....	61	1 00
	Cherington P. & E. Co.	Rubber stamps .....	62	75
	Green, Joyce & Co.....	Bunting .....	63	10 99
	Central Union Tel. Co..	Telephone messages .....	64	2 50
	Hann & Adair.....	Printing .....	65	15 70
	Paul Jones.....	Expenses as trustee.....	66	1 00
	Chas. T. Howe.....	Music for commencem't	67	29 00
	Z. L. White & Co.....	Cheese cloth.....	68	1 82
	L. B. Wing.....	Expenses as trustee.....	69	5 00
	Columbus Supply Co..	Hardware .....	70	61 74
	Col. Mill & Mine S. Co.	Hardware .....	71	65 17
	Mrs. A. Farnham.....	Brushes .....	72	9 00
	Florence Bell.....	Clerical work .....	73	1 65
	Grace Eagleson.....	Clerical work .....	74	8 43
	A. W. Livingston's Sons	Flowers .....	75	18 75
	G. N. Carman, Treas...	Membership N. C. A. C. and S. S.....	76	3 00
	American Dist. Tel. Co.	Watch boxes .....	77	27 00
	S. M. Tracy.....	Plants .....	78	46 20
	W. A. Kellerman.....	Cash advanced .....	79	13 59
	Freda Detmers.....	Labor .....	80	25 00
	L. C. Riddle.....	Labor .....	81	58 05
	W. H. Anderson.....	Books .....	82	405 25
	Howald & Conklin.....	Tin rollers .....	83	5 10
	Erner & Hopkins.....	Electric apparatus .....	84	124 03
	Tallmadge Hdw. Co....	Hardware .....	85	5 72
	H. Cole Co.....	Cross section paper.....	86	7 40
	Eagle Lock Co.....	Locks .....	87	11 00
	Library Bureau.....	Outfit .....	88	2 75
	W. T. Magruder.....	Cash advanced .....	89	18 28
	Blackwood, Green & Co.	Paint .....	90	17 55
	Geo. Trowbridge.....	Carpentry .....	91	2 00
	Keuffel & Esser Co....	Tapes .....	92	5 36
	Star Milk Cooler Co....	Cooler .....	93	24 00
	L. Hoster Brewing Co..	Sprouts .....	94	9 88
	John Immel & Son.....	Repairs .....	95	18 80
	Yardley & Harsh.....	Paill .....	96	1 50
	Nitschke Bros .....	Office supplies .....	97	12 33
	Central Ohio Paper Co.	Paper .....	98	10 50
	A. H. Barber Mfg. Co.	Ammonia .....	99	6 98
	Capital City Mach. Wks.	Machinery and castings	100	103 88
	R. J. Seymour.....	Messenger service .....	101	7 00
	Champlin Printing Co..	Printing .....	102	135 50
	Columbus Transfer Co..	Coupe services .....	103	7 00
	J. C. Porterfield.....	Basket ball .....	104	6 00
	Franklin Toilet Sup. Co.	Laundry .....	105	10 16
	Engelke & Bigelow.....	Freight and draying...	106	39 83
	Murray City Coal Co...	Coal .....	107	82 78
	Frank L. Sikes.....	Costs O. S. U. vs. Cup- pett & Webb.....	108	31 56
	John Wanamaker.....	Books .....	109	4 89
	Columbus Street Ry. Co.	Street car tickets.....	110	5 00
	C. B. Guittard.....	Salary, June, 1899.....	111	50 00
	Alexis Cope.....	Salary, July, 1899.....	112	187 50
	C. E. Barnett.....	" " .....	113	65 00
	Jan Blackford.....	" " .....	114	54 17

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
July 29	Edith D. Cockins.....	Salary, July, 1899.....	115	\$58 33
	Dennis Clifford .....	" " .....	116	45 00
	James Kelley .....	" " .....	117	25 00
	Mrs. Edith R. Hubler..	" " .....	118	33 33
	Frank Ruhlen .....	" " .....	119	60 00
	F. K. Luke.....	" " .....	120	50 00
	J. F. Cunningham.....	" " .....	121	50 00
	A. F. Hall.....	" " .....	122	60 00
	A. G. McCall.....	" " .....	123	20 00
	W. C. McCracken.....	" " .....	124	150 00
	C. M. Low.....	" " .....	125	54 17
	Wm. Standley .....	" " .....	126	50 00
	B. LeBay .....	" " .....	127	50 00
	G. A. Rose.....	" " .....	128	65 00
	A. Chantler .....	" " .....	129	40 00
	G. A. Goodspeed.....	" " .....	130	40 00
	J. H. Brown.....	" " .....	131	40 00
	D. D. Geren.....	" " .....	132	40 00
	W. Whitestone.....	" " .....	133	40 00
	H. Chantler.....	" " .....	134	40 00
	G. C. Denny.....	" " .....	135	40 00
	W. N. Cook.....	" " .....	136	40 00
	W. Townsel.....	" " .....	137	25 00
11	Laning Printing Co....	Bal. due for ptg. cat....	138	35 00
15	J. McLain Smith.....	Exp. m't'g com: July 14, 1899 .....	139	7 21
17	H. W. Johns Mfg. Co..	2-30 bbl. red roof paint	140	47 42
24	Olive B. Jones.....	1-10 sal. yr. end'g. June 30, 1900 .....	141	135 00
29	C. H. Woodruff.....	Sal. as carp. July, 1899	142	60 00
	Jos. Garretson .....	Salary for July, "	143	35 25
Aug. 1	T. J. Godfrey.....	Expenses as trustee....	144	8 55
	R. M. Rownd.....	Postage .....	145	15 00
	L. B. Wing.....	Expenses as trustee....	146	5 25
	Webb Sta. & Print. Co.	Stationery, etc.....	147	28 35
	Cherington P. & E. Co.	Stamps .....	148	4 00
	A. N. Marquis & Co....	Book .....	149	2 94
	Champlin Printing Co..	Printing .....	150	44 25
	Ruggles-Gale Co .....	Blank book .....	151	9 00
	Central Union Tel. Co..	Telephone service .....	152	72 75
	Manufac's' O. & G. Co.	Lard .....	153	14 82
	Grace Eagleson .....	Clerical work .....	154	3 60
	Tracy-Wells Co .....	Sundries .....	155	20 97
	American Dist. Tel. Co.	Messenger service .....	156	85
	R. J. Seymour .....	" " .....	157	20 25
	Frank Huddleson .....	" " .....	158	1 18
	Thos. F. Hunt.....	Exps. to San Francisco	159	126 25
	Columbus Bnk. Note Co.	Stationery .....	160	37 50
	A. H. Smythe.....	Office supplies .....	161	1 35
	Berlin Printing Co....	Printing .....	162	4 50
	Erner & Hopkins.....	Electric supplies .....	163	1 95
	American Sand Co.....	Sand .....	164	54 10
	Marion Peck .....	Labor .....	165	36 00
	Thos. Boude .....	" .....	166	22 50
	W. H. Case.....	" .....	167	37 50
	Waters Governor Co....	Valve .....	168	16 66
	McCabe Hang. Mfg. Co.	Bolts .....	169	18 00
	West. Kieley S. S. Co..	Valves .....	170	72 00
	Wheeler C. & Eng. Co.	Tubes .....	171	8 25
	Bourne & Know's M. Co.	Gaskets .....	172	23 95
	New. Col. Bridge Co....	Iron .....	173	35 58

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Aug. 1	Adams-Bagnall El. Co.	Arc lamps.....	174	\$200 00
	West'gh'se El. Mfg. Co.	Electric machinery .....	175	500 00
	McDonald Bros .....	Cesspool .....	176	60
	Kelton & Converse.....	Lumber .....	177	47 21
	J. C. Howard.....	Painting, etc .....	178	92 00
	Frank Watkins .....	Painting .....	179	295 00
	Columbus Sewer P. Co.	Flue lining .....	180	2 22
	A. F. Fenstermaker.....	Painting .....	181	83 00
	Columbus Brass Co....	Water closets .....	182	119 75
	J. W. Cawthon.....	Carpentry .....	183	15 75
	J. W. Schneider.....	" .....	184	15 75
	M. B. Geary.....	" .....	185	14 50
	Eli Hiatt .....	" .....	186	15 75
	J. S. Abbott & Co.....	Glass .....	187	16 75
	A. S. W. Huffman.....	Plumbing .....	188	40 22
	Harper's Illus. Syndicate	Advertising cuts .....	189	17 20
	Champlin Printing Co.	Printing .....	190	64 25
	Oberlin Annual .....	Advertising .....	191	10 00
	S. C. Derby.....	Cash advanced .....	192	69 25
	J. C. Perry.....	Labor .....	193	10 53
	F. E. Fleischer.....	" .....	194	25 28
	Murray City Coal Co...	Coal .....	195	10 93
	L. L. Hill.....	Clerical work .....	196	13 00
	Standard Disinfect. Co.	Sheep dip .....	197	2 50
	Warren & S'th'k C. Co.	Repairs .....	198	9 00
	A. A. Hall.....	B'd'g and breeding cows	199	32 00
	Blackwood, Green & Co.	Hardware .....	200	41 92
	Jacob Weisheimer .....	Corn .....	201	22 35
	Glucose Sugar Ref. Co.	Gluten meal .....	202	19 50
	Nitschke Bros .....	Envelopes, etc.....	203	5 15
	Kemp & Burpee Mfg. Co.	Repairs .....	204	4 30
	Franklin Toil. Sup. Co.	Laundering .....	205	2 11
	Capital City Mach. Wks.	Tools and machinery...	206	7 35
	John Immel & Son.....	Repairs .....	207	9 10
	W. O. Thompson.....	Expenses as president...	208	70 20
	Creamery Pack Mfg. Co.	Dairy supplies .....	209	81 31
	W. H. Siebert.....	Model of brain.....	210	10 00
	Clara Armstrong .....	Labor on herbarium...	211	9 15
	Karl Kellerman .....	" .....	212	4 50
	L. C. Riddle.....	" .....	213	28 05
	Payne, McD. Hdw. Co.	Hardware .....	214	21 13
	Lena Dennis .....	Labor .....	215	5 00
	Central Ohio Paper Co.	Paper .....	216	37 80
	W. A. Kellerman.....	Cash advanced .....	217	49 16
	W. R. Beattie.....	Labor on herbarium...	218	10 05
	Emma Beattie .....	" .....	219	24 60
	Harriet G. Burr.....	" .....	220	11 70
	Edna Armstrong .....	" .....	221	24 60
	Freda Detmers .....	" .....	222	8 10
	J. H. Randall.....	Carpentry .....	223	52 75
	James Penn .....	Hauling .....	224	2 75
	Mabel Huddleson .....	Work in library.....	225	4 00
	A. F. Fenstermaker....	Decorating rooms .....	226	50 00
	Wm. Burdell, Jr.....	Roll and truss.....	227	4 25
	Hann & Adair.....	Printing .....	228	13 15
	Schoedinger, F. & Co.	Tools .....	229	2 80
	Geo. D. Cross Lum. Co.	Lumber .....	230	32 52
	D. S. White.....	Cash advanced .....	231	11 00
	T. L. Griffin.....	Clerical work .....	232	30 00
	W. H. Hoskins.....	Advertising .....	233	8 75
	Wm. Burdell, Jr.....	Turf goods .....	234	12 60
	Tallmadge Hardware Co.	Hardware .....	235	7 48

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Aug. 1	Columbus Supply Co...	Hardware supplies.....	236	\$419 14
	H. Braun Sons & Co...	Drugs & surg. inst'm'ts	237	16 83
	Bausch & Lomb Opt. Co.	Optical parts .....	238	2 88
	E. L. Moseley.....	Bird skins.....	239	58 30
	Bauer & Baumeister....	Repairs .....	240	3 50
	Col. Mill & Mine S. Co.	Hardware .....	241	58 80
	Engelke & Bigelow.....	Freight and draying...	242	33 04
	Fred J. Heer.....	Catalogues .....	243	240 00
	Bucher Engraving Co...	Printing .....	244	96 82
	A. A. Grifing Iron Co	Radiators .....	245	61 01
	J. P. Covan.....	Labor .....	246	55 25
	Columbus Gas Co.....	Gas .....	247	52 43
	Lutheran Book Concern.	Paper & covers for cat.	248	75 00
	R. M. Rownd, P. M....	Postage .....	249	20 00
15	James B. Loff.....	Labor .....	250	6 60
16	R. M. Rownd, P. M....	Postage .....	251	16 00
22	W. O. Thompson.....	Salary, August, 1899...	252	416 67
	Alexis Cope .....	Salary August 1899.....	253	187 50
26	C. E. Barnet.....	" " .....	254	65 00
	Jean Blackford .....	" " .....	255	54 17
	W. C. McCracken.....	" " .....	256	150 00
	J. Covan .....	" " .....	257	70 00
	G. A. Rose.....	" " .....	258	65 00
	F. Ruhlen .....	" " .....	259	60 00
	A. F. Hall.....	" " .....	260	60 00
	Edith D. Cockins.....	" " .....	261	58 33
	C. M. Low.....	" " .....	262	54 17
	F. K. Luke.....	" " .....	263	50 00
	J. F. Cunningham.....	" " .....	264	50 00
	W. Standley .....	" " .....	265	50 00
	B. LeBay .....	" " .....	266	50 00
	A. Chantler .....	" " .....	267	40 00
	G. A. Goodspeed.....	" " .....	268	40 00
	J. H. Brown.....	" " .....	269	40 00
	D. D. Geren.....	" " .....	270	40 00
	W. Whitestine .....	" " .....	271	40 00
	H. Chantler .....	" " .....	272	40 00
	G. C. Denny.....	" " .....	273	40 00
	M. N. Cook.....	" " .....	274	40 00
	W. Townsel .....	" " .....	275	25 00
	James Kelley.....	" " .....	276	25 00
	Mrs. E. R. Hubler.....	" " .....	277	33 33
	A. G. McCall.....	" " .....	278	20 00
	Dennis Clifford .....	" " .....	279	8 71
	E. M. Smothers.....	" " .....	280	20 32
	Benj. Irwin .....	" " .....	281	15 97
	Joe. Garretson .....	" " .....	282	40 50
25	Charles Woodruff .....	September wages .....	283	53 50
26	Clinton Schaeffer.....	Carpentry .....	284	18 00
	J. W. Schneider.....	" .....	285	38 75
	M. B. Geary.....	" .....	286	11 75
	Eli Hiatt .....	" .....	287	38 75
	J. W. Cawthon.....	" .....	288	38 75
	William Bechel .....	" .....	289	18 00
	C. H. Woodruff.....	Salary as carp. Aug. '99.	290	65 00
Sept. 5	L. B. Wing.....	Expenses as trustee.....	291	2 00
	T. J. Godfrey.....	" " .....	292	5 00
	Von Gerichten A. G. Co.	Glass .....	293	20 00



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899 Sept. 5	A. H. Andrews & Co.	Slating .....	294	\$8 00
	Wm. M. Taylor Mantel and Grate Co.	Mantel .....	295	135 00
	Frank Watkins	Painting .....	296	65 00
	J. C. Howard	" .....	297	29 25
	Jas. S. Schofield	Oil .....	298	5 00
	A. L. Yardley	Screens .....	299	60 00
	Brust & Bauch	Masonry .....	300	42 40
	Columbus Brass Co.	Castings .....	301	98 83
	The Hanna Pt. Mfg. Co.	Bronze .....	302	5 85
	T. S. Edgington	Papering .....	303	15 00
	Western Kieley S. S. Co.	Traps and valve .....	304	51 75
	Lewis Fink	Painting .....	305	131 00
	J. H. Ridgway	Taxidermy .....	306	37 50
	Batterson Decor. House	Decorating .....	307	248 65
	Western Union Tel. Co.	Telegraph service .....	308	10 48
	F. C. McKinney	Guide and messenger .....	309	20 62
	A. G. McCall	Guide work .....	310	9 00
	H. S. King	" .....	311	5 00
	E. H. Moore	" .....	312	5 00
	K. G. Thompson	" .....	313	3 00
	M. F. Osborn	" .....	314	3 50
	H. T. Osborn	" .....	315	3 50
	Merle Rickett	" .....	316	3 00
	The Webb Sta. & Pr. Co.	Office supplies .....	317	4 30
	R. L. Polk & Co.	City directory .....	318	5 00
	Central Union Tel. Co.	Telephone service .....	319	35
	Orvis & Marshall	Mimeograph ink .....	320	90
	D. H. Derflinger	Gasoline .....	321	3 83
	Standard Oil Co.	Oil .....	322	23 32
	India Alkali Works	Savogran .....	323	18 14
	American Dist. Tel. Co.	Alarm boxes .....	324	32 00
	Bourne & Knowles	Gaskets .....	325	1 35
	Jos. Dixon Crucible Co.	Graphite .....	326	6 50
	H. Braun Sons & Co.	Lead and ammonia .....	327	1 40
	Col. Mill & Mine S. Co.	Hardware .....	328	10 64
	Scioto Boiler Works	Breeching and heater .....	329	137 00
	Thos. Boude	Labor .....	330	40 56
	M. Peck	" .....	331	40 50
	W. H. Case	" .....	332	39 00
	Col. Wire & Iron Wks.	Wire guards .....	333	31 50
	Palmer & Beck	Roofing, etc. ....	334	173 44
	Electric Appliance Co.	Electric apparatus .....	335	33 70
	W. T. Magruder	Cash advanced .....	336	12 62
	Cherrington P. & E. Co.	Rubber type .....	337	4 60
	A. H. Smythe	Labels .....	338	85
	J. S. Maclean	Drawers .....	339	58 50
	Chas. Hall	Labor .....	340	1 00
	E. H. Bailey	Janitorial .....	341	25 80
	Burr Waters	" .....	342	9 38
	A. E. Adair	Masonry .....	343	4 05
	P. M. Griffin	Samples of woods .....	344	5 00
	Crosby St. G. & V. Co.	Repairs .....	345	29 05
	Brown & Sharpe Mf. Co.	Standard instruments .....	346	12 70
	Columbus Supply Co.	Hardware .....	347	97 20
	J. S. Maclean	Lumber .....	348	18 50
	Central Ohio Paper Co.	Paper .....	349	3 94
	McClelland & Co.	Electric supplies .....	350	3 68
	J. G. Biddle	" .....	351	2 25
	J. P. Covan	Extra labor .....	352	6 24
	Lincoln Electric Co.	Electric machinery .....	353	349 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Sept. 5	Acme Paving Co.....	Paving .....	354	\$80 08
	Erner & Hopkins.....	Electric supplies .....	355	19 69
	M. P. Streett.....	Masonry .....	356	135 31
	Capital City Mach. Wks.	Hardware .....	357	36 85
	Springfield Gas Eng. Co.	Gas engine .....	358	150 00
	Fitzpatrick & Hoepfner.	Connecting gas engine..	359	23 63
	J. A. Brashear.....	Spectroscope .....	360	200 00
	J. F. Donahue & Co....	Hardware .....	361	6 17
	Library Bureau .....	Cards .....	362	6 00
	Schoedinger, F'r'n. & Co.	Mica .....	363	7 88
	Bausch & Lomb Opt. Co.	Reprints .....	364	2 94
	Sheppard & Co.....	Labels .....	365	2 25
	E. T. Jenks.....	Locks .....	366	8 00
	Freda Detmers .....	Labor on herbarium...	367	10 00
	W. R. Beattie.....	" .....	368	7 15
	Kelton & Converse.....	Lumber .....	369	105 02
	Karl Kellerman.....	Labor .....	370	10 20
	L. C. Riddle.....	" on herbarium...	371	6 30
	Nitschke Bros .....	Stationery, etc.....	372	18 90
	De Laval Separator Co.	Repairs .....	373	3 20
	Laura L. Hill.....	Clerical work .....	374	14 00
	A. F. Wilcox.....	Labor .....	375	261 82
	Blackwood, Green & Co.	Hardware .....	376	108 75
	James Penn .....	Carting .....	377	27 70
	Sells & Co.....	Feed .....	378	15 00
	L. Hoster Brewing Co..	Sprouts .....	379	5 02
	A. W. Livingston's Sons.	Barley and peas.....	380	10 65
	Jacob Weisheimer .....	Corn .....	381	23 35
	Columbus Sewer P. Co.	Pipe .....	382	13 43
	E. D. Heller.....	Labor .....	383	25 37
	J. C. Perry.....	" .....	384	32 58
	J. H. Burgess.....	" .....	385	8 75
	J. Booth .....	" .....	386	15 34
	F. E. Fleischer.....	" .....	387	27 62
	C. Schaffer .....	Carpentry .....	388	40 25
	M. J. Snow.....	Labor .....	389	33 62
	A. F. Fenstermaker....	Painting, etc.....	390	157 72
	J. H. Randall.....	Carpentry .....	391	28 75
	O. S. Lear.....	Typewriter and neostyle	392	122 75
	Fay & Scott.....	Lathe .....	393	145 35
	Metta L. Seymour.....	Clerical work .....	394	7 25
	R. A. McClure.....	Lumber .....	395	131 13
	E. Kaiser .....	Sundries .....	396	1 48
	Herbert Osborn .....	Cash advanced .....	397	3 45
	Edward Orton, Sr.....	" .....	398	10 95
	The Fish Stone Co.....	Labor and stone.....	399	11 50
	Spahr & Glenn.....	Printing .....	400	2 50
	Krauss, Butler & B. Co.	Carpets and curtains...	401	110 67
	Champlin Printing Co..	Printing .....	402	5 25
	Hann & Adair.....	" .....	403	1 85
	Lawrence Press Co....	Vouchers .....	404	8 00
	Christian World Co....	Advertising .....	405	4 78
	Republican Publish. Co.	" .....	406	15 00
	O. T. Corson.....	" .....	407	22 50
	Moufort & Co.....	" .....	408	14 00
	Curts & Jennings.....	" .....	409	16 80
	The Interior .....	" .....	410	22 68
	Taylor, Williams & Co.	Coal .....	411	3 08
	Murray City Coal Co...	" .....	412	44 52
	E. A. Cole & Co.....	" .....	413	2 94
	W. F. Lavery.....	Extra services .....	414	27 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Sept. 5	J. L. Trauger.....	Binding .....	415	\$0 64
	Keasbey & Mattison Co.	Magnabestos .....	416	121 74
	Engelke & Bigelow.....	Freight and carting....	417	55 92
	E. Doddington & Co.....	Lumber .....	418	249 26
	Tallmadge Hardware Co.	Hardware .....	419	123 33
	W. C. Mills.....	Sal., July and Aug., '99	420	70 00
	Columbus Gas Co.....	Gas .....	421	39 00
30	W. O. Thompson.....	Salary, Sept., 1899.....	422	416 67
23	Alexis Cope .....	" .....	423	187 50
30	C. E. Barnet.....	" .....	424	65 00
	Jean Blackford .....	" .....	425	54 17
	E. E. Harrold.....	" .....	426	90 00
	T. F. Hunt.....	" .....	427	250 00
	G. W. Knight.....	" .....	428	250 00
	W. F. Hunter.....	" .....	429	250 00
	A. M. Bleile.....	" .....	430	225 00
	C. N. Brown.....	" .....	431	225 00
	A. C. Barrows.....	" .....	432	225 00
	R. D. Bohannan.....	" .....	433	225 00
	B. L. Bowen.....	" .....	434	225 00
	S. C. Derby.....	" .....	435	225 00
	J. V. Denney.....	" .....	436	225 00
	E. A. Eggers.....	" .....	437	225 00
	J. P. Gordy.....	" .....	438	225 00
13	W. A. Kellerman.....	" .....	439	225 00
30	W. R. Lazenby.....	" .....	440	225 00
	Wm. McPherson .....	" .....	441	225 00
	W. T. Magruder.....	" .....	442	225 00
	H. Osborn .....	" .....	443	225 00
	J. R. Smith.....	" .....	444	225 00
	W. H. Scott.....	" .....	445	225 00
	B. F. Thomas.....	" .....	446	225 00
	H. A. Weber.....	" .....	447	225 00
13	N. W. Lord.....	" .....	448	200 00
30	F. A. Ray.....	" .....	449	200 00
	G. B. Kauffman.....	" .....	450	200 00
	E. Orton, Jr.....	" .....	451	180 00
	J. N. Bradford.....	" .....	452	180 00
	F. E. Sanborn.....	" .....	453	180 00
	H. C. Lord.....	" .....	454	160 00
	F. C. Clark.....	" .....	455	160 00
	G. W. McCoard.....	" .....	456	160 00
	C. P. Linhart.....	" .....	457	160 00
	D. S. White.....	" .....	458	160 00
	F. C. Caldwell.....	" .....	459	160 00
	Edward Orton.....	" .....	460	150 00
	E. A. Hitchcock.....	" .....	461	150 00
	C. S. Prosser.....	" .....	462	150 00
	W. D. Gibbs.....	" .....	463	160 00
	P. G. Bowman.....	" .....	464	140 00
	W. H. Page.....	" .....	465	140 00
	W. H. Siebert.....	" .....	466	135 00
	S. A. Norton.....	" .....	467	120 00
	E. B. Kinkead.....	" .....	468	120 00
	J. E. Boyd.....	" .....	469	120 00
	C. E. Sherman.....	" .....	470	110 00
	T. E. French.....	" .....	471	110 00
	J. R. Taylor.....	" .....	472	110 00
	C. W. Mesloh.....	" .....	473	110 00
	A. W. Hodgman.....	" .....	474	110 00
	J. H. Schaffner.....	" .....	475	100 00

## STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Sept. 30	W. E. Henderson.....	Salary, Sept., 1899.....	476	\$100 00
	J. A. Bownocker.....	" " " " " " " "	477	100 00
	W. A. Knight.....	" " " " " " " "	478	100 00
	C. L. Arnold.....	" " " " " " " "	479	100 00
	K. D. Swartzel.....	" " " " " " " "	480	100 00
23	C. B. Morrey.....	" " " " " " " "	481	100 00
30	W. L. Graves.....	" " " " " " " "	482	100 00
	C. A. Bruce.....	" " " " " " " "	483	100 00
	Geo. H. McKnight.....	" " " " " " " "	484	90 00
	Wm. Renck.....	" " " " " " " "	485	85 00
	J. S. Hine.....	" " " " " " " "	486	85 00
	F. L. Landacre.....	" " " " " " " "	487	85 00
	C. P. Crowe.....	" " " " " " " "	488	80 00
	A. E. Vinson.....	" " " " " " " "	489	80 00
23	C. P. Souther.....	" " " " " " " "	490	80 00
30	F. E. Kester.....	" " " " " " " "	491	80 00
	Mrs. Jas. A. Canfield...	" " " " " " " "	492	75 00
	E. O. Randall.....	" " " " " " " "	493	70 00
	D. F. Pugh.....	" " " " " " " "	494	70 00
	W. A. Landacre.....	" " " " " " " "	495	70 00
	W. F. Lavery.....	" " " " " " " "	496	70 00
	C. B. Frederick.....	" " " " " " " "	497	70 00
	Jno. B. Sanborn.....	" " " " " " " "	498	70 00
	E. E. Somermeier.....	" " " " " " " "	499	70 00
	T. K. Lewis.....	" " " " " " " "	500	60 00
	F. A. Fish.....	" " " " " " " "	501	60 00
	O. V. Brumley.....	" " " " " " " "	502	50 00
	S. W. Martin.....	" " " " " " " "	503	50 00
	A. V. Bleisinger.....	" " " " " " " "	504	40 00
	J. B. Parker.....	" " " " " " " "	505	30 00
	Grace L. Pitts.....	" " " " " " " "	506	30 00
	M. Dresbach.....	" " " " " " " "	507	30 00
	D. A. Kohr.....	" " " " " " " "	508	60 00
	H. C. Gore.....	" " " " " " " "	509	30 00
	J. H. Vosskuehler.....	" " " " " " " "	510	30 00
	A. H. McIntire.....	" " " " " " " "	511	30 00
	E. L. Ball.....	" " " " " " " "	512	30 00
	J. W. Young.....	" " " " " " " "	513	30 00
	F. J. Hale.....	" " " " " " " "	514	30 00
	S. W. Collett.....	" " " " " " " "	515	25 00
	H. W. Brown.....	" " " " " " " "	516	25 00
	J. H. Collins.....	" " " " " " " "	517	20 00
	J. A. Shauck.....	" " " " " " " "	518	17 50
	E. H. Bailey.....	" " " " " " " "	519	15 00
	R. E. McIntosh.....	" " " " " " " "	520	12 50
	W. C. McCracken.....	" " " " " " " "	521	150 00
	J. P. Covan.....	" " " " " " " "	522	70 00
	G. A. Rose.....	" " " " " " " "	523	65 00
	F. Ruhlen.....	" " " " " " " "	524	60 00
	A. F. Hall.....	" " " " " " " "	525	60 00
	E. D. Cockins.....	" " " " " " " "	526	58 33
	C. B. Guittard.....	" " " " " " " "	527	55 00
	H. N. Townshend.....	" " " " " " " "	528	55 00
	G. S. Kellicott.....	" " " " " " " "	529	55 00
	M. D. Jeffrey.....	" " " " " " " "	530	55 00
	Lucy Allen.....	" " " " " " " "	531	55 00
	C. M. Low.....	" " " " " " " "	532	54 17
	F. K. Luke.....	" " " " " " " "	533	50 00
	H. C. Price.....	" " " " " " " "	534	50 00
	Wm. Standley.....	" " " " " " " "	535	50 00
	B. LeBay.....	" " " " " " " "	536	50 00



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Sept. 30	D. C. Huddleson.....	Salary, Sept., 1899.....	537	\$50 00
	T. Boude .....	" " .....	538	45 00
Oct. 28	W. H. Case.....	Salary, October, 1899..	539	45 00
Sept. 30	M. Peck .....	Salary, Sept., 1899.....	540	40 00
	A. Chantler .....	" " .....	541	43 33
	G. A. Goodspeed.....	" " .....	542	40 00
	J. H. Brown.....	" " .....	543	40 00
	D. D. Geren.....	" " .....	544	40 00
	W. Whitestine.....	" " .....	545	40 00
	H. Chantler .....	" " .....	546	40 00
	G. C. Denny.....	" " .....	547	40 00
	M. N. Cook .....	" " .....	548	40 00
16	Dennis Clifford .....	" " .....	549	8 00
30	W. Townsel .....	" " .....	550	25 00
	J. C. Perry.....	" " .....	551	12 50
	Mrs. E. R. Hubler.....	" " .....	552	33 33
	James Kelley .....	" " .....	553	25 00
	Benj. Irwin .....	" " .....	554	45 00
	W. C. Weir.....	" " .....	555	20 00
	A. G. McCall.....	" " .....	556	20 00
	W. C. Mills.....	" " .....	557	35 00
9	W. C. Conklin.....	Extra jan. serv's (meet- ing A. A. A. S.) 18 d'ys	558	23 23
11	Edw. Orton, Pres. A. A.	Con. to exp's. of m't'g.		
	A. S. ....	Aug. 19-26, 1899.....	559	500 00
18	Wm. Parks .....	Labor .....	560	5 00
	Wm. Cannan .....	Ceramics scholars'p fees	561	12 50
	Addie Lucas .....	Labor .....	562	7 50
	Geo. Lucas .....	" .....	563	2 50
19	Lily Weeks .....	" .....	564	5 00
20	Lizzie Keenan .....	" .....	565	5 00
	Mrs. Helen Keenan....	" .....	566	6 25
25	J. McLain Smith.....	Expenses as trustee....	567	8 21
	Lily Weeks .....	Labor .....	568	5 00
30	Earl Conway .....	Sal., Sep., '99 (20 days)	569	13 33
	Alice Dufour .....	Salary, Sept., 1899.....	570	25 00
	C. F. Dowd.....	" " .....	571	20 00
	H. W. Kennedy.....	Emerson McMillin fel- lowship in astronomy.	572	30 00
	Wm. Cannan .....	Ceramics scholarship ...	573	20 00
	W. E. Mann.....	Em. McMillin scholar- ship in economics.....	574	25 00
	F. M. Hamilton.....	Salary, Sept., 1899.....	575	80 00
	W. C. Conklin.....	" " .....	576	40 00
	C. A. Grate.....	" " .....	577	30 00
	H. C. Allen.....	" " .....	578	115 00
29	Mrs. M. J. Kellenberger.	Serv. dept. dom. econ..	579	20 00
30	F. O. Clements.....	Salary, Sept., 1899.....	580	30 00
	J. F. Jeffrey .....	" " .....	581	10 00
Oct. 2	Dennis Clifford .....	Cleaning buildings .....	582	32 26
	Joe Garretson .....	Salary, Sept., 1899.....	583	37 50
	Lily Weeks .....	Labor .....	584	5 00
3	R. M. Rownd, P. M....	Postage .....	585	51 80
4	L. B. Wing.....	Ex. m't'g of b'd & com.	586	7 30
	F. C. Caldwell.....	Cash advanced as per receipt filed.....	587	232 75
5	Carl Freigan .....	Books .....	588	7 00
	Publishers' Weekly ...	Trade list .....	589	2 00
	Chas. Bryson .....	Repairing chairs .....	590	29 65
	D. Appleton & Co.....	Annual cyclopedia .....	591	5 00
	Amer. Jour. of Physiol.	Book .....	592	5 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Oct. 5	Library Bureau.....	Blank book.....	593	\$8 50
	Psychological Review ..	Book .....	594	3 00
	Ira Miller .....	Notarial work .....	595	3 60
	A. H. Smythe.....	Let. files, paste, brushes	596	3 90
	Boston Bookbinding Co.	Binder .....	597	1 13
	Olive Jones .....	Cash advanced .....	598	1 25
	Burham Ant. Book Store	Books .....	599	5 00
	F. E. Inskeep.....	" .....	600	7 50
	S. A. Norton.....	" .....	601	55 00
	W. Morelan .....	Carpentry .....	602	1 00
	Mabel Huddleson .....	Work in library.....	603	7 00
	Boston Book Co.....	Books .....	604	57 00
	G. E. Stechert.....	" .....	605	410 52
	Seraphim Bl'nk. Bk. Co.	Binding .....	606	210 65
	E. H. Bailey.....	Labor .....	607	17 10
	E. G. Bailey.....	" .....	608	9 69
	D. L. Auld.....	Engraving .....	609	95
	Columbus Brass Co....	Fixtures .....	610	1 75
	A. E. Adair.....	Masonry .....	611	4 50
	Columbus Sewer P. Co.	Cement .....	612	90
	W. T. Magruder.....	Cash advanced .....	613	37 23
	L. S. Starrett Co.....	Tools .....	614	21 73
	Crosby St. G. & V. Co.	Gage .....	615	5 70
	J. S. Maclean.....	Book-case .....	616	32 50
	L. S. Wells.....	Book .....	617	5 25
	H. F. Whickham.....	Specimens .....	618	5 00
	Gold Mine Stores.....	Dry goods .....	619	5 15
	H. Osborn .....	Cash advanced .....	620	38 75
	DeLaval Separator Co..	Rope Belts .....	621	1 75
	Creamery Package Co..	Dairy Supplies .....	622	23 66
	Sells & Co.....	Feed .....	623	37 18
	H. A. Coe.....	Hulling clover seed....	624	15 00
	L. L. Hill.....	Clerical work .....	625	13 00
	O. V. Brumley.....	Labor .....	626	10 00
	H. J. Hammond.....	" .....	627	3 62
	H. Braun Sons & Co..	Drugs, etc.....	628	13 75
	Spahr & Glenn.....	Paper and printing....	629	11 15
	Livingston Seed Co....	Seeds .....	630	36 05
	Franklin Toil. Sup. Co.	Laundering .....	631	6 35
	M. L. Seymour.....	Clerical work .....	632	3 59
	W. A. Kellerman.....	Cash advanced .....	633	15 11
	James Penn .....	Draying .....	634	2 75
	L. A. Bowman.....	Apparatus .....	635	35 00
	W. E. Case.....	Labor .....	636	38 25
	Bourne & Kn'w's Mf. Co.	Gaskets .....	637	1 88
	J. M. & W. Westwater..	Brackets .....	638	3 50
	Jeffrey Mfg. Co.....	Chain and wheels.....	639	5 00
	Capital City Mach. Wks.	Castings .....	640	56 49
	Columbus Gas. Co.....	Gas .....	641	80 86
	Sipe & Sigler.....	Bells .....	642	2 52
	B. B. Wells.....	Carpentry .....	643	15 40
	Hanna Paint Mfg. Co..	Paint .....	644	2 65
	M. C. Hunter.....	Labor .....	645	9 75
	G. M. Berndroth.....	" .....	646	12 00
	Wm. Erdman .....	" .....	647	8 50
	Hall-Collins Hdw. Co..	Hardware .....	648	12 05
	W. A. Knight.....	Cash advanced .....	649	3 40
	F. E. Sanborn.....	" .....	650	2 75
	Columbus Varnish Co..	Alcohol .....	651	10 30
	W. H. Anderson & Co..	Books .....	652	22 50
	F. Charles .....	Draying .....	653	5 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Oct. 5	Cherrington P. & E. Co.	Stamp and pad.....	654	\$2 75
	W. J. Davidson.....	Draying .....	655	50
	T. J. Dundon & Co.....	Sawdust .....	656	3 00
	J. S. Maclean.....	Lumber .....	657	11 25
	F. J. Heer.....	Electrotypes .....	658	50
	Penna. Fuel Co.....	Coal .....	659	4 40
	P. Hayden S. Hdw. Co.	Hardware .....	660	50 01
	J. G. Pulling & Co.....	Pump parts .....	661	10 00
	Columbus Gas Co.....	Coke .....	662	14 16
	Chicago L. S. & S. Co.	Balances, etc.....	663	102 10
	Samuel Butler & Co....	Soap .....	664	22 50
	Columbus Supply Co...	Supplies .....	665	201 48
	Rood Lumber Co.....	Lumber .....	666	25 00
	Burrows Bros. Co.....	Books .....	667	240 61
	R. W. Funk.....	Labor .....	668	28 58
	F. O. Clements.....	" .....	669	8 00
	L. A. Harsh & Co.....	Mop wringer pail.....	670	6 00
	J. S. Schofield.....	Oil .....	671	2 50
	Money penny-Ham'd. Co.	Sapolio .....	672	9 00
	Standard Oil Co.....	Oil .....	673	8 74
	Erner & Hopkins.....	Electrical apparatus ..	674	4 84
	G. T. Johnson.....	Toilet paper .....	675	37 50
	Bucher Eng. Co.....	Etching .....	676	2 00
	C. W. Bryant.....	Cleaning vaults .....	677	38 00
	Samuel Smith.....	Sapolio .....	678	10 00
	R. I. Fulton.....	Clock .....	679	5 00
	Col. Pharmacal Co.....	Oint jars .....	680	35
	J. C. Beard.....	Lettering .....	681	3 00
	Nitschke Bros.....	Rubber bands .....	682	1 88
	E. H. Moore.....	Guide service .....	683	3 12
	J. H. Burgess.....	" .....	684	37
	Annis McLaughlin.....	Work on class records..	685	6 82
	H. R. Powell.....	" .....	686	4 95
	Grace Eagleson.....	Clerical work .....	687	4 95
	F. J. Pavlicek.....	Guide service .....	688	3 75
	C. C. Wilcox.....	" .....	689	3 93
	C. R. Hambleton.....	" .....	690	3 83
	F. C. Long.....	" .....	691	1 25
	C. F. Johnson.....	" .....	692	1 87
	F. C. McKinney.....	" .....	693	9 12
	M. Snow.....	" .....	694	10 00
	Miller Furniture Co...	Furniture .....	695	62 95
	Schoedinger, F'r'n & Co.	Hardware .....	696	13 92
	Hasbrook, Barger Co...	Dishes .....	697	5 90
	F. E. Flescher.....	Labor .....	698	6 75
	Eaton Machine Works..	Locker parts and drills..	699	7 82
	McClelland & Co.....	Office supplies .....	700	19 20
	Bausch & Lomb Opt. Co.	Optical instruments and supplies .....	701	466 15
	Krauss, Butler & B. Co.	Shades .....	702	30 00
	Col. Transfer Co.....	Use of wagon.....	703	9 00
	Webb Sta. & Ptg. Co...	Blank books .....	704	22 50
	U. B. Publishing House.	Advertising .....	705	15 10
	Ohio State Journal Co.	" .....	706	6 00
	Champlin Printing Co...	Printing .....	707	255 55
	Murray City Coal Co...	Coal .....	708	142 99
	H. W. Johns Mfg. Co...	Paints .....	709	6 88
	Charles Vogel.....	Labor .....	710	6 25
	Vogelgesang Furn. Co...	Repairs .....	711	63 20
	L. Fink.....	Papering .....	712	23 00
	W. R. Beattie.....	Labor .....	713	8 10

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Oct. 5	J. C. Perry.....	Labor .....	714	\$10 95
	Kelton & Converse.....	Lumber .....	715	269 06
	Central Ohio Paper Co.	Paper .....	716	114 40
	P. A. Fenstermaker....	Painting, etc.....	717	47 86
	J. W. Cawthorn.....	Carpentry .....	718	42 75
	F. Fleischer .....	Labor .....	719	8 70
	Col. Paint Mfg. Co.....	Paint .....	720	28 66
	Col. Supply Co.....	Hardware .....	721	247 51
	Col. Wire and Iron Wks.	Wire guards .....	722	29 40
	Masury, Young & Co..	Oil .....	723	30 00
	B. D. Potts.....	Hardware .....	724	86 50
	Palmer & Beck.....	Roofing .....	725	105 11
	Tallmadge Hardw. Co..	Hardware .....	726	79 21
	E. Doddington & Co....	Lumber .....	727	280 94
	M. P. Street.....	Masonry .....	728	6 75
	J. J. Gheen.....	Plastering .....	729	84 15
	E. F. Moore.....	Labor .....	730	2 02
	Rilen Masters .....	Man and team.....	731	2 40
	A. F. Wilcox.....	Labor .....	732	14 25
	W. Morelan .....	Carpentry .....	733	9 00
	J. C. Howard.....	Painting .....	734	2 55
	J. H. Randall.....	Carpentry .....	735	26 75
	J. H. Schaeffer.....	" .....	736	39 00
	L. Schaeffer .....	" .....	737	17 50
	C. Shaffer .....	" .....	738	31 00
	Sheppard & Co.....	Printing .....	739	2 00
	C. N. Mooney.....	Labor .....	740	10 50
	W. E. Mann.....	Labor .....	741	11 55
	P. F. Yoerger.....	Painting .....	742	2 00
	Curts & Jennings.....	Advertising .....	743	15 12
	Ruggles-Gale Co .....	Mounting maps, etc...	744	4 70
	Col. P. & W. Glass Co.	Glass .....	745	3 75
	C. B. Morrey.....	Platinum crucible .....	746	12 00
	Tracy-Wells & Co.....	Tags .....	747	11 20
	Hann & Adair.....	Printing .....	748	53 14
	Blackwood, Green & Co.	Hardware .....	749	31 28
	Kimball & Matthews....	Photo supplies .....	750	162 46
	Mallinckrodt Chem. Wks.	Acids .....	751	124 31
	W. H. Mullins.....	Castings .....	752	9 00
	Green, Joyce & Co.....	Towels .....	753	63 00
	H. Troemner.....	Repairing balances .....	754	52 75
	Kauffman, Lattimer Co.	Chemical apparatus .....	755	686 79
	Col. Mill & M. S. Co..	Hardware .....	756	25 88
	Engelke & Bigelow....	Freight and draying....	757	49 10
	J. W. Groves.....	Salary, Sept., 1899.....	758	50 00
9	L. Weeks .....	Work in gymnasium....	759	5 00
15	C. E. Barnett.....	Oct. salary, ½ month...	760	32 50
12	Sherwood Mfg. Co.....	Cleaners and cutters....	761	37 24
14	Ohio National Bank....	Foreign bill exchange...	762	11 35
	Ohio National Bank....	" .....	763	21 85
	Ohio National Bank....	" .....	764	59 90
16	L. Weeks .....	Services as maid.....	765	5 00
28	W. O. Thompson.....	Salary, Oct., 1899.....	766	416 67
	Alexis Cope.....	" .....	767	187 50
	C. E. Steeb.....	" .....	768	37 50
	J. Blackford .....	" .....	769	54 17
	E. D. Cockins.....	" .....	770	58 33
	T. F. Hunt.....	" .....	771	250 00
	G. W. Knight.....	" .....	772	250 00
	W. F. Hunter.....	" .....	773	250 00
	A. M. Bleile.....	" .....	774	225 00



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899 Oct. 28	C. N. Brown.....	Salary, Oct., 1899.....	775	\$225 00
	A. C. Barrows.....	" " ".....	776	225 00
	R. D. Bohannon.....	" " ".....	777	225 00
	B. L. Bowen.....	" " ".....	778	225 00
	S. C. Derby.....	" " ".....	779	225 00
	J. V. Denney.....	" " ".....	780	225 00
	E. A. Eggers.....	" " ".....	781	225 00
	J. P. Gordy.....	" " ".....	782	225 00
	W. A. Kellerman.....	" " ".....	783	225 00
	W. R. Lazenby.....	" " ".....	784	225 00
	Wm. McPherson.....	" " ".....	785	225 00
	W. T. Magruder.....	" " ".....	786	225 00
	H. Osborn.....	" " ".....	787	225 00
	J. R. Smith.....	" " ".....	788	225 00
	W. H. Scott.....	" " ".....	789	225 00
	B. F. Thomas.....	" " ".....	790	225 00
	H. A. Weber.....	" " ".....	791	225 00
	N. W. Lord.....	" " ".....	792	200 00
	F. A. Ray.....	" " ".....	793	200 00
	G. B. Kauffman.....	" " ".....	794	200 00
	Ed. Orton, Jr.....	" " ".....	795	180 00
	J. N. Bradford.....	" " ".....	796	180 00
	F. E. Sanborn.....	" " ".....	797	180 00
	H. C. Lord.....	" " ".....	798	160 00
	F. C. Clark.....	" " ".....	799	160 00
	G. W. McCoard.....	" " ".....	800	160 00
	C. P. Linhart.....	" " ".....	801	160 00
	D. S. White.....	" " ".....	802	160 00
	F. C. Caldwell.....	" " ".....	803	160 00
	Ed. Orton.....	" " ".....	804	150 00
	E. A. Hitchcock.....	" " ".....	805	150 00
	C. S. Prosser.....	" " ".....	806	150 00
	W. D. Gibbs.....	" " ".....	807	160 00
	P. G. Bowen.....	" " ".....	808	140 00
	W. H. Page.....	" " ".....	809	140 00
	W. H. Siebert.....	" " ".....	810	135 00
	O. B. Jones.....	" " ".....	811	135 00
	S. A. Norton.....	" " ".....	812	120 00
	E. B. Kinkead.....	" " ".....	813	120 00
	J. E. Boyd.....	" " ".....	814	120 00
	H. C. Allen.....	" " ".....	815	115 00
	C. E. Sherman.....	" " ".....	816	110 00
	T. E. French.....	" " ".....	817	110 00
	J. R. Taylor.....	" " ".....	818	110 00
	C. W. Mesloh.....	" " ".....	819	110 00
	A. W. Hodgman.....	" " ".....	820	110 00
	J. H. Schaffner.....	" " ".....	821	100 00
	W. E. Henderson.....	" " ".....	822	100 00
	J. A. Bownocker.....	" " ".....	823	100 00
	W. A. Knight.....	" " ".....	824	100 00
	C. L. Arnold.....	" " ".....	825	100 00
	K. D. Swartzel.....	" " ".....	826	100 00
	C. B. Morrey.....	" " ".....	827	100 00
	W. L. Graves.....	" " ".....	828	100 00
	C. A. Bruce.....	" " ".....	829	100 00
	F. M. Hamilton.....	" " ".....	830	80 00
	Geo. H. McKnight.....	" " ".....	831	90 00
	Wm. Renck.....	" " ".....	832	85 00
	J. S. Hine.....	" " ".....	833	85 00
	F. L. Landacre.....	" " ".....	834	85 00
	C. P. Crowe.....	" " ".....	835	80 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Oct. 28	A. E. Vinson.....	Salary, Oct., 1899.....	836	\$80 00
	Col. Water Works.....	Water rents .....	837	422 66
	F. E. Kester.....	Salary, Oct., 1899.....	838	80 00
	Mrs. James Canfield....	" " .....	839	75 00
	E. O. Randall.....	" " .....	840	70 00
	D. F. Pugh.....	" " .....	841	70 00
	W. A. Landacre.....	" " .....	842	70 00
	W. F. Lavery.....	" " .....	843	70 00
	C. B. Frederick.....	" " .....	844	70 00
	John B. Sanborn.....	" " .....	845	70 00
	E. E. Somermeier.....	" " .....	846	70 00
	T. K. Lewis.....	" " .....	847	60 00
	F. A. Fish.....	" " .....	848	60 00
	C. B. Guittard.....	" " .....	849	55 00
	H. N. Townshend.....	" " .....	850	55 00
	G. S. Kellicott.....	" " .....	851	55 00
	Maude D. Jeffrey.....	" " .....	852	55 00
	Lucy Allen .....	" " .....	853	55 00
	O. V. Brumley.....	" " .....	854	50 00
	S. W. Martin.....	" " .....	855	50 00
	D. C. Huddleson.....	" " .....	856	50 00
	A. V. Bleininger.....	" " .....	857	40 00
	J. B. Parker.....	" " .....	858	30 00
	M. Dresbach .....	" " .....	859	30 00
	F. O. Clements.....	" " .....	860	45 00
	H. C. Gore.....	" " .....	861	30 00
	J. H. Vosskuehler.....	" " .....	862	30 00
	A. H. McIntire.....	" " .....	863	30 00
	E. L. Ball.....	" " .....	864	30 00
	J. W. Young.....	" " .....	865	30 00
	C. A. Grate.....	" " .....	866	30 00
	F. J. Hale.....	" " .....	867	30 00
	S. W. Collett.....	" " .....	868	25 00
	H. W. Brown.....	" " .....	869	25 00
	J. H. Collins.....	" " .....	870	20 00
	J. A. Shauck.....	" " .....	871	17 50
	E. H. Bailey.....	" " .....	872	15 00
	R. E. McIntosh.....	" " .....	873	12 50
	W. C. McCracken.....	" " .....	874	150 00
	E. E. Harrold.....	" " .....	875	90 00
	J. P. Covan.....	" " .....	876	70 00
	G. R. Rose.....	" " .....	877	65 00
	F. Ruhlen .....	" " .....	878	60 00
	A. F. Hall.....	" " .....	879	60 00
	C. M. Low.....	" " .....	880	54 17
	F. K. Luke.....	" " .....	881	50 00
	H. C. Price.....	" " .....	882	50 00
	W. Standley.....	" " .....	883	50 00
	B. LeBay .....	" " .....	884	50 00
	T. Boude .....	" " .....	885	45 00
	M. Peck .....	" " .....	886	40 00
	A. Chantler .....	" " .....	887	45 00
	G. A. Goodspeed.....	" " .....	888	40 00
	J. H. Brown.....	" " .....	889	40 00
	D. D. Geren.....	" " .....	890	40 00
	W. W. Whitestine.....	" " .....	891	40 00
	H. Chantler .....	" " .....	892	40 00
	G. C. Denny.....	" " .....	893	40 00
	M. N. Cook.....	" " .....	894	40 00
	W. C. Conklin.....	" " .....	895	40 00
	T. E. Osborn.....	" " .....	896	40 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Oct. 28	W. Townsel.....	Salary, Oct., 1899.....	897	\$25 00
	J. C. Perry.....	" ".....	898	12 50
	J. Garrettson.....	" ".....	899	37 50
	B. Irwin.....	" ".....	900	45 00
	James Kelly.....	" ".....	901	25 00
	Mrs. E. R. Hubler.....	" ".....	902	33 33
	W. C. Weir.....	" ".....	903	20 00
	A. G. McCall.....	" ".....	904	20 00
	W. E. Mann.....	" ".....	905	25 00
	H. W. Kennedy.....	" ".....	906	30 00
	Wm. Cannan.....	" ".....	907	20 00
	W. C. Mills.....	" ".....	908	35 00
	Alice Dufour.....	" ".....	909	25 00
	Grace Pitts.....	" ".....	910	30 00
	C. L. Dowd.....	" ".....	911	20 00
	Earl Conway.....	" ".....	912	20 00
	N. P. Oglesby.....	" ".....	913	40 00
	D. A. Kohr.....	" ".....	914	60 00
	J. A. Jeffrey.....	" ".....	915	10 00
	J. W. Groves.....	" ".....	916	50 00
23	Flint & Wall'g Mfg. Co.	Pipe.....	917	60 43
	Lily Weeks.....	Gym. service.....	918	5 00
24	Mrs. M. J. Kellenberger	5 weeks' service dept. domestic economy.....	919	25 00
26	Chas. H. Woodruff.....	Salary, Oct., 1899.....	920	65 00
Nov. 1	Lily Weeks.....	Labor.....	921	5 00
4	R. M. Rownd, P. M....	Postage stamps.....	922	17 00
5	Lily Weeks.....	Serv. as jan. gymnasium	923	5 00
10	W. C. Heller & Co.....	Steel boxes.....	924	7 70
	Gregory Electric Co....	Lamps and switches....	925	13 90
	Sipe & Sigler.....	Cells.....	926	2 77
	Kinkade & Liggett.....	Wire screens.....	927	9 40
	Western Electric Co....	Shade and globes.....	928	2 08
	The Circleville Ice Co..	Ice and refrigeration...	929	25 00
	The Ashcroft Mfg. Co..	Guage repairs.....	930	24 25
	Blackwood, Green & Co.	Tin, tanks, etc.....	931	30 60
	The P. Hayden Saddlery and Hdw. Co.....	Tin and copper.....	932	53 84
	The G. B. Schulte S. Co.	Steel and shafting.....	933	19 75
	Wm. Erdman.....	Student labor.....	934	17 00
	O. I. Dick.....	".....	935	4 88
	G. M. Berndroth.....	".....	936	32 60
	Hall-Collins Hdw. Co..	Brads, screws, etc.....	937	11 44
	M. C. Hunter.....	Student labor.....	938	10 80
	Col. Forge & Iron Co..	Anvil.....	939	6 88
	Brown & Sharpe Mf. Co.	Rule, device and hob...	940	19 34
	Cleve'd Twist Drill Co.	Drills.....	941	7 32
	Burr's Damascus T. Co.	Tools.....	942	19 62
	The Hasbr'k-Bargar Co.	Dishes and supplies....	943	2 78
	The Alpha Dairy Co..	Milk and butter.....	944	2 85
	Logan McCormick.....	Frames.....	945	11 90
	J. A. Wallace.....	Lecture.....	946	5 00
	Palmer & Beck.....	Flowerpots.....	947	20 00
	Glucose Sugar Ref. Co.	Gluten meal.....	948	42 40
	Champlin Printing Co..	Printing postals.....	949	5 15
	Sells & Co.....	Feed.....	950	24 53
	Woodard Photo Co....	Slides.....	951	7 00
	Deering Harvester Co..	Repairs, oil, etc.....	952	129 37
	Laura L. Hill.....	Clerical work.....	953	13 00
	Warren-Southw'k C. Co.	Dairy wagon.....	954	200 00
	W. H. Hoskins.....	Advertising.....	955	17 50

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Nov. 10	R. L. McClelland.....	Labor .....	956	\$1 25
	D. S. White.....	Sundries .....	957	4 75
	A. N. Irwin.....	Work and supplies.....	958	28 89
	The Breeders' Gazette..	Advertising .....	959	22 00
	David C. Beggs Co....	Shades .....	960	5 50
	F. A. Ward.....	Mounting tiger .....	961	75 00
	Champlin Printing Co..	Printing .....	962	9 50
	E. C. Livenspire.....	Hooks, rings, etc.....	963	2 30
	The Griswold, Sohl Co.	Iron and cutting.....	964	81
	John Bower .....	Masonry .....	965	18 00
	Neely & Converse.....	Work on coal bin.....	966	29 85
	Kinkade & Liggett.....	Work on roof.....	967	6 40
	Louis Lind .....	Sewer pipe .....	968	38 35
	M. P. Streett.....	Brick and labor.....	969	224 36
	Fitzpatrick & Hoepfner.	Plumbing .....	970	38 46
	J. S. Maclean.....	Material .....	971	13 00
	P. Hayden Sad.-H. Co.	Castings, stock, etc....	972	60 67
	Eimer & Amend.....	Pumps .....	973	4 61
	F. O. Schoedinger.....	Roof .....	974	46 00
	Borger Bros. & Co.....	Work on stock.....	975	24 49
	H. H. Walling.....	Painting .....	976	15 50
	J. S. Maclean.....	Sawdust .....	977	3 00
	Edgar B. Fox.....	Superintending building	978	25 00
	Robert Lawson .....	Door sills .....	979	3 20
	Arthur Watt .....	Labor .....	980	26 66
	Borden & Selleck Co..	Milk scales .....	981	7 00
	Burrows Bros. Co.....	Zeller Aristotle .....	982	4 68
	Schilling Foundry Co..	Castings .....	983	44
	Nitschke Bros .....	Envelopes .....	984	1 40
	John Lawrence .....	Generator .....	985	6 50
	Ziegler Elec. Co.....	Balances .....	986	5 10
	Andrew Spittal .....	Work in physics dept....	987	69 16
	Lawrence Press Co....	Checks, blanks, etc.....	988	1 75
	A. E. Foote.....	Pyrolusite .....	989	3 38
	Baker & Co.....	Platinum ware .....	990	149 89
	Hann & Adair.....	Printing .....	991	4 55
	The Seraphim B. B. Co.	Books .....	992	57 00
	Chicago Bl. Pr. Pap. Co.	B. P. paper .....	993	2 40
	Kimball & Matthews....	Photo material .....	994	8 76
	Kauffman, Lattimer Co.	Drugs and sundries.....	995	475 00
	Amer. Aristotype Co..	Plates .....	996	9 75
	Baker & Adamson C. Co.	Chemicals .....	997	19 85
	Mallinckrodt Chm. Wks.	" .....	998	209 77
	John Carbutt .....	Plates .....	999	35 74
	Chicago L. Sup. & S. Co.	Sundries .....	1000	54 77
	G. F. Balck Mfg. Co....	Pumps .....	1001	1,030 00
	H. A. Getz.....	Floral wreath .....	1002	20 00
	B. D. Potts.....	Flange .....	1003	81
	Col. M. & Mine Sup. Co.	Supplies .....	1004	268 06
	J. M. & W. Westwater..	" .....	1005	20 00
	R. F. Morse.....	Guage preserver .....	1006	3 25
	Elec. Appliance Co....	Supplies .....	1007	101 00
	Man. Gen. Con. Co.....	Bulb and globe.....	1008	1 25
	Bugbee & Laycock.....	Crank pin braces.....	1009	4 40
	Westing El. Mfg. Co...	Switch .....	1010	15 75
	C. L. Traver.....	Books and express.....	1011	2 12
	Journal of C. & C. Bull.	1 copy year book.....	1012	1 25
	Chas Scribner's Sons...	Books .....	1013	1 73
	W. L. Redrow.....	Student help.....	1014	15 15
	L. B. Wing.....	Trustee expenses .....	1015	8 00
	U. S. Mort. & Tr. Co..	Bonds due Dec. 1st.....	1016	25,000 00



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Nov. 10	U. S. Mort. & Tr. Co..	Interest due Dec. 1st....	1017	\$2,812 50
	Clinton National Bank..	" " .....	1018	1,800 00
	Clinton National Bank..	" " .....	1019	3,825 00
	Z. L. White.....	Shade .....	1020	1 10
	Green, Joyce & Co.....	Crash .....	1021	4 20
	A. M. Bleile.....	Supplies .....	1022	6 46
	M. C. Lilley & Co.....	Bugles and cord.....	1023	12 00
	Miller Furniture Co....	Chairs tables and tips..	1024	15 39
	Tallmadge Hard. Co....	Glass .....	1025	7 20
	James Penn .....	Oats .....	1026	4 71
	A. C. Barrows.....	Stamp and pad.....	1027	50
	F. C. Clark.....	Envelopes and cards....	1028	1 84
	Library Bureau .....	Label holders & supports	1029	7 50
	Univ. of Chicago Press..	Pol. Econ. Journal....	1030	14 04
	Spahr & Glenn.....	Reading statements .....	1031	1 75
	D. Appleton & Co.....	Spencers Socialogy....	1032	32 50
	Burrows Bros. & Co....	Standard Dictionary ...	1033	17 00
	Col. Supply Co.....	Pipe and fittings.....	1034	18 23
	C. K. Leith.....	Collections of rocks....	1035	40 00
	Jas. Penn .....	Hauling .....	1036	50
	A. E. Day.....	Work .....	1037	50
	J. J. Gheen.....	Plastering .....	1038	33 60
	Hanna Paint Mfg. Co..	Filler and oil.....	1039	3 00
	S. S. Rickley, Treas....	Labor of A. B. Coover..	1040	5 87
	W. C. Mills.....	Supplies .....	1041	5 04
	B. F. McCarty & Co....	Frogs .....	1042	6 00
	Orvis & Marshall.....	Spacer and paper.....	1043	3 00
	J. S. Hine.....	Department supplies ...	1044	9 95
	G. V. Bailey.....	Mounting skeleton .....	1045	14 00
	F. J. Tyler.....	Lab. work .....	1046	2 25
	Payne-McD. Hdw. Co..	Supplies .....	1047	18 07
	H. H. & C. S. Brinkey..	Department supplies ...	1048	5 08
	A. W. Livingston's Sons	Pots .....	1049	17 10
	O. E. Jennings.....	Labor .....	1050	4 50
	Kimball & Matthews....	Repairs, etc. ....	1051	2 20
	N. M. Glatfelter.....	Herbarium specimens ...	1052	5 50
	C. O. Paper Co.....	Paper .....	1053	4 66
	Edna Armstrong.....	Work on herbarium....	1054	1 50
	Hann & Adair.....	Envelopes and papers..	1055	8 50
	Payne-McD. Hdw. Co..	Bot. dept. supplies.....	1056	11 22
	J. Wanamaker .....	Books .....	1057	24 10
	W. H. Mears.....	Labor .....	1058	2 34
	F. W. Arnold.....	" .....	1059	2 50
	H. Mesloh .....	" .....	1060	2 28
	O. D. Clark.....	" .....	1061	3 91
	C. L. Wottring.....	" .....	1062	6 65
	Ira McKinley .....	" .....	1063	5 43
	A. F. Wilcox.....	" .....	1064	44 00
	F. W. Nelson.....	" .....	1065	2 59
	Krauss, Butler & B. Co.	Linoleum .....	1066	30 00
	M. Rice .....	Work .....	1067	4 00
	M. Huddleson.....	" .....	1068	10 00
	Mason Snow .....	" .....	1069	12 32
	Robt. Clarke Co.....	Book .....	1070	2 60
	Burrows Bros. Co.....	Books library .....	1071	136 21
	G. E. Stechert.....	" .....	1072	135 48
	J. W. Shaw.....	Labor .....	1073	11 46
	Library Bureau .....	Cards, boxes, etc.....	1074	33 43
	Boston Book Co.....	Books .....	1075	100 00
	S. A. Norton.....	Chemical works .....	1076	22 00
	S. N. Young.....	Work in law library....	1077	9 20

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Nov. 10	Seraphim Blank. B. Co.	Binding .....	1078	\$22 30
	Spahr & Glenn.....	Printing .....	1079	9 25
	The H. Cole Co.....	Thumb tacks.....	1080	1 10
	A. H. Smythe.....	Files .....	1081	2 50
	R. L. Babb.....	Year book.....	1982	5 00
	Orvis & Marshall.....	Ribbon paper .....	1083	2 75
	Miller's Fair .....	Hooks .....	1084	75
	Col. Mdse. Co.....	Erasers .....	1085	9 00
	Jas. Penn.....	Hauling .....	1086	5 30
	T. J. O'Neil.....	Rent of canvas.....	1087	4 50
	C. F. Slyh, Supt.....	Vault cleaning .....	1088	10 60
	Spahr & Glenn.....	Envelopes .....	1089	2 25
	Geo. Roth .....	Guide .....	1090	2 00
	F. C. Long.....	" .....	1091	3 00
	W. U. Telegraph Co...	Telegrams .....	1092	5 65
	W. G. Wallace.....	Guide .....	1093	3 25
	Tracy Wells Co.....	Sundries .....	1094	28 00
	Mrs. F. D. Myers.....	Washing towels.....	1095	4 75
	Amer. Dist. Tel. Co....	Night watch boxes.....	1096	27 00
	Green, Joyce & Co.....	Ribbon .....	1097	4 68
	Standard Oil Co.....	Oils .....	1098	34 42
	Nitschke Bros .....	Printing .....	1099	35 67
	C. U. Telephone Co....	Service .....	1100	69 68
	Nitschke Bros .....	Wrapping paper.....	1101	28 00
	Z. L. White & Co.....	Ribbon .....	1102	4 80
	Chas. Lowe.....	Night watch .....	1103	1 50
	M. C. Lilley & Co.....	Repairs flag .....	1104	1 25
	E. L. Orndorff.....	Guide .....	1105	4 25
	F. C. McKinney.....	" .....	1106	5 75
	C. H. Woodruff.....	Labor .....	1107	6 50
	C. M. & W. Westwater.	Globes .....	1108	50
	Agric. Students P. Co..	Advertising .....	1109	80 00
	Shaw Walker Co.....	Desk boxes .....	1110	4 30
	Cent. O. Paper Co.....	Brands, etc.....	1111	3 61
	E. G. Soltman.....	Drawing tables .....	1112	22 50
	Schilling Foundry Co..	C. iron .....	1113	1 80
	Franklin Toilet Sup. Co.	Towels, etc.....	1114	2 50
	The Bristol Co.....	Charts .....	1115	1 17
	Crosby St. G. & V. Co.	Repairs .....	1116	1 00
	Hohmann, M. Mfg. Co.	Flue, etc.....	1117	26 25
	Cols. Machine Co.....	Chemicals .....	1118	3 15
	S. W. Smith.....	Office chair .....	1119	3 75
	E. G. Bailey.....	Labor .....	1120	14 38
	F. J. Hale.....	Lab. work .....	1121	2 40
	W. T. Magruder.....	Telegram .....	1122	50
	Nitschke Bros .....	Ink .....	1123	50
	McClellan & Co.....	Stencil .....	1124	1 05
	Col. Supply Co.....	Packing .....	1125	7 50
	C. U. Telephone Co....	Telephone service .....	1126	90
	M. L. Seymour.....	Clerical work .....	1127	6 00
	Domestic Laundry .....	Laundering .....	1128	30 00
	J. C. Porterfield.....	Basket balls .....	1129	12 50
	A. G. Spaulding & Bros.	Lunger .....	1130	2 10
	Cols. Wire & Iron Wks.	Guards and rods.....	1131	6 50
	Wm. Taylor M. & G. Co.	Lumber, etc.....	1132	521 97
	Keasbey & Mattison....	Magnabestos covering...	1133	40 00
	Flint & Walling Mf. Co.	Pipe .....	1134	24 46
	M. P. Streett.....	Masonry .....	1135	12 50
	Col. Sewer Pipe Co....	Pipe .....	1136	11 55
	James LeRoy .....	Labor .....	1137	13 65
	The Fish Stone Co.....	Stone .....	1138	9 18

## STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Nov. 10	Fred Fleischer.....	Stone .....	1139	\$13 65
	Eaton Machine Works..	Cable, etc .....	1140	31 88
	Harry Kinnear .....	Wiring .....	1141	3 60
	Krauss, Butler & B. Co.	Shades .....	1142	19 90
	Tallmadge Hardware Co.	Supplies .....	1143	33 38
	Charles W. Herb.....	Letter files .....	1144	15 50
	Engelke & Bigelow....	Drayage and freight...	1145	79 61
	C. E. Stechert.....	Books .....	1146	3 40
	Luth. Book Concern....	Binding .....	1147	2 25
	Osborn, Wilms & Horn	Coal .....	1148	23 42
	Col. M. & Mine Sup. Co.	Supplies .....	1149	15 56
	Murray City Coal Co....	Coal .....	1150	683 12
	H. Braun Sons & Co....	Sundries .....	1151	10 38
	J. H. Randall.....	Carpenter work .....	1152	27 00
	Columbus Brass Co....	Goose-necks, etc.....	1153	6 27
	J. C. Howard.....	Painting .....	1154	90 75
	Columbus Supply Co....	Supplies .....	1155	51 23
	Champlin Printing Co..	Printing .....	1156	124 25
	Erner & Hopkins.....	Supplies .....	1157	17 78
	Vogelgesang Furn. Co..	Register and chim top..	1158	59 00
	Cap. City Mach. Wks..	Supplies .....	1159	8 93
	E. Doddington & Co....	Lumber .....	1160	80 13
	Hann & Adair.....	Sundries .....	1161	22 62
	Schoedinger, F'rn & Co.	" .....	1162	14 29
	Kelton & Converse....	Lumber .....	1163	198 76
	J. S. Abbott & Co.....	Hardware .....	1164	39 59
	Blackwood, Green & Co.	" .....	1165	18 37
	Wm. Burdell, Jr.....	Hames, etc.....	1166	45 50
	Bausch & Lomb Opt. Co.	Microscopes, etc.....	1167	167 93
	J. W. Cawthon.....	Carpentry .....	1168	20 25
	A. F. Wilcox.....	" .....	1169	12 50
	Wilbert Morelan .....	" .....	1170	13 25
	Louis Schaffer .....	" .....	1171	19 50
	Clinton Schaffer .....	" .....	1172	21 25
	M. D. Geary.....	" .....	1173	12 50
	W. H. Waters.....	Labor .....	1174	36 00
	Columbus Gas Co.....	Gas .....	1175	130 12
13	John T. Mack.....	Expense .....	1176	31 30
	Lily Weeks .....	Gym. work .....	1177	5 00
16	C. H. E. Moore.....	Reading math. papers...	1178	5 00
	Mrs. Anna D. Orton...	Salary Dr. Orton, Nov- Dec., 1899.....	1179	300 00
	E. O. Fippin.....	Military services .....	1180	50 00
17	D. M. Massie.....	Expenses as trustee....	1181	40 22
	Ohio National Bank....	Bill Exc. order I. Hayez	1182	5 00
18	Ohio National Bank....	Same to ord L. Stender	1183	20 10
20	Bannon & Bannon.....	Printing brief, O. S. U. vs. Cuppett & Webb..	1184	25 90
25	W. O. Thompson.....	Salary, Nov., 1899.....	1185	416 67
22	Alex. Cope .....	" .....	1186	187 50
21	Carl E. Steeb .....	" .....	1187	50 00
25	Katherine Duncan .....	" .....	1188	50 00
	Edith D. Cockins.....	" .....	1189	58 33
	T. F. Hunt.....	" .....	1190	250 00
	Geo. W. Knight.....	" .....	1191	250 00
	W. F. Hunter.....	" .....	1192	250 00
	A. M. Bleile.....	" .....	1193	225 00
	C. N. Brown.....	" .....	1194	225 00
	A. C. Barrows.....	" .....	1195	225 00
	R. D. Bohannon.....	" .....	1196	225 00
	B. L. Bowen.....	" .....	1197	225 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Nov. 25	S. C. Derby.....	Salary, Nov., 1899.....	1198	\$225 00
	J. V. Denney.....	" " " ".....	1199	225 00
	E. A. Eggers.....	" " " ".....	1200	225 00
	J. P. Gordy.....	" " " ".....	1201	225 00
	W. A. Kellerman.....	" " " ".....	1202	225 00
	W. R. Lazenby.....	" " " ".....	1203	225 00
	Wm. McPherson.....	" " " ".....	1204	225 00
	W. T. Magruder.....	" " " ".....	1205	225 00
	H. Osborn.....	" " " ".....	1206	225 00
	J. R. Smith.....	" " " ".....	1207	225 00
	W. H. Scott.....	" " " ".....	1208	225 00
	B. F. Thomas.....	" " " ".....	1209	225 00
	H. A. Weber.....	" " " ".....	1210	225 00
	N. W. Lord.....	" " " ".....	1211	200 00
	Frank A. Ray.....	" " " ".....	1212	200 00
	G. B. Kauffman.....	" " " ".....	1213	200 00
	Edward Orton, Jr.....	" " " ".....	1214	180 00
	J. N. Bradford.....	" " " ".....	1215	180 00
	F. E. Sanborn.....	" " " ".....	1216	200 00
	H. C. Lord.....	" " " ".....	1217	160 00
	F. C. Clark.....	" " " ".....	1218	160 00
	G. W. McCoard.....	" " " ".....	1219	160 00
	C. P. Linhart.....	" " " ".....	1220	160 00
	D. S. White.....	" " " ".....	1221	160 00
	F. C. Caldwell.....	" " " ".....	1222	160 00
	E. A. Hitchcock.....	" " " ".....	1223	150 00
	C. S. Prosser.....	" " " ".....	1224	150 00
	W. D. Gibbs.....	" " " ".....	1225	160 00
	P. G. Bowman.....	" " " ".....	1226	140 00
	W. H. Page.....	" " " ".....	1227	140 00
	W. H. Siebert.....	" " " ".....	1228	135 00
	O. B. Jones.....	" " " ".....	1229	135 00
	S. A. Norton.....	" " " ".....	1230	120 00
	E. B. Kinkad.....	" " " ".....	1231	120 00
	James E. Boyd.....	" " " ".....	1232	120 00
	H. C. Allen.....	" " " ".....	1233	115 00
	C. E. Sherman.....	" " " ".....	1234	110 00
	J. R. Taylor.....	" " " ".....	1235	110 00
	T. E. French.....	" " " ".....	1236	110 00
	C. W. Mesloh.....	" " " ".....	1237	110 00
	A. W. Hodgman.....	" " " ".....	1238	110 00
	J. H. Schaffner.....	" " " ".....	1239	100 00
	W. E. Henderson.....	" " " ".....	1240	100 00
	J. A. Bownocker.....	" " " ".....	1241	100 00
	W. A. Knight.....	" " " ".....	1242	100 00
	C. L. Arnold.....	" " " ".....	1243	100 00
	K. D. Swartzel.....	" " " ".....	1244	100 00
	C. B. Morrey.....	" " " ".....	1245	100 00
	W. L. Graves.....	" " " ".....	1246	100 00
	C. A. Bruce.....	" " " ".....	1247	100 00
	F. M. Hamilton.....	" " " ".....	1248	80 00
	G. H. McKnight.....	" " " ".....	1249	90 00
	Wm. Renck.....	" " " ".....	1250	85 00
	J. S. Hine.....	" " " ".....	1251	85 00
	F. L. Landacre.....	" " " ".....	1252	85 00
	C. P. Crowe.....	" " " ".....	1253	80 00
	A. E. Vinson.....	" " " ".....	1254	80 00
	F. E. Kester.....	" " " ".....	1255	80 00
	S. E. Canfield.....	" " " ".....	1256	75 00
	E. O. Randall.....	" " " ".....	1257	70 00
	D. F. Pugh.....	" " " ".....	1258	95 00



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Nov. 25	W. A. Landacre.....	Salary, Nov., 1899.....	1259	\$70 00
	W. F. Lavery.....	" " ".....	1260	70 00
	C. B. Frederick.....	" " ".....	1261	70 00
	J. B. Sanborn.....	" " ".....	1262	70 00
	E. E. Sommermeier.....	" " ".....	1263	70 00
	T. K. Lewis.....	" " ".....	1264	60 00
	F. A. Fish.....	" " ".....	1265	60 00
	C. B. Guittard.....	" " ".....	1266	55 00
	H. N. Townshend.....	" " ".....	1267	55 00
	G. Kellicott.....	" " ".....	1268	55 00
	Maude Jeffrey.....	" " ".....	1269	55 00
	Lucy Allen.....	" " ".....	1270	55 00
	O. V. Brumley.....	" " ".....	1271	50 00
	S. W. Martin.....	" " ".....	1272	50 00
	D. C. Huddleson.....	" " ".....	1273	50 00
	A. V. Bleiningner.....	" " ".....	1274	40 00
	J. B. Parker.....	" " ".....	1275	30 00
	M. Dresbach.....	" " ".....	1276	30 00
	F. O. Clements.....	" " ".....	1277	45 00
	H. C. Gore.....	" " ".....	1278	30 00
	J. H. Vosskuehler.....	" " ".....	1279	30 00
	A. H. McIntire.....	" " ".....	1280	30 00
	E. L. Ball.....	" " ".....	1281	30 00
	Lily Weeks.....	Gym. services.....	1282	5 00
	J. W. Young.....	Salary, Nov., 1899.....	1283	30 00
	C. A. Grate.....	" " ".....	1284	30 00
	F. J. Hale.....	" " ".....	1285	30 00
	S. W. Collett.....	" " ".....	1286	25 00
	H. W. Brown.....	" " ".....	1287	25 00
	J. H. Collins.....	" " ".....	1288	20 00
	J. A. Shauck.....	" " ".....	1289	17 50
	E. H. Bailey.....	" " ".....	1290	15 00
	R. E. McIntosh.....	" " ".....	1291	12 50
	W. C. McCracken.....	" " ".....	1292	150 00
	E. E. Harrold.....	" " ".....	1293	90 00
	J. P. Covan.....	" " ".....	1294	70 00
	G. R. Rose.....	" " ".....	1295	65 00
	F. Ruhlen.....	" " ".....	1296	60 00
	A. F. Hall.....	" " ".....	1297	60 00
	C. M. Low.....	" " ".....	1298	54 17
	F. K. Luke.....	" " ".....	1299	50 00
	H. C. Price.....	" " ".....	1300	50 00
	W. Standley.....	" " ".....	1301	50 00
	B. LeBay.....	" " ".....	1302	50 00
	T. Boude.....	" " ".....	1303	45 00
	W. H. Case.....	" " ".....	1304	45 00
	M. Peck.....	" " ".....	1305	40 00
	A. Chantler.....	" " ".....	1306	45 00
	G. A. Goodspeed.....	" " ".....	1307	40 00
	J. H. Brown.....	" " ".....	1308	40 00
	D. D. Geren.....	" " ".....	1309	40 00
	W. Whitestine.....	" " ".....	1310	40 00
	H. Chantler.....	" " ".....	1311	40 00
	G. C. Denney.....	" " ".....	1312	40 00
	M. N. Cook.....	" " ".....	1313	40 00
	W. C. Conklin.....	" " ".....	1314	40 00
	T. E. Osburn.....	" " ".....	1315	40 00
	W. Townsel.....	" " ".....	1316	25 00
	J. C. Perry.....	" " ".....	1317	12 50
	Joe. Garretson.....	" " ".....	1318	37 50
	B. I. Irwin.....	" " ".....	1319	45 00

## STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Nov. 25	James Kelly.....	Salary, Nov., 1899.....	1320	\$25 00
	E. R. Hubler.....	" ".....	1321	33 33
	W. C. Weir.....	" ".....	1322	20 00
	A. G. McCall.....	" ".....	1323	20 00
	H. W. Kennedy.....	" ".....	1324	30 00
	W. E. Mann.....	" ".....	1325	25 00
	W. Cannan.....	" ".....	1326	20 00
	W. C. Mills.....	" ".....	1327	35 00
	Alice Dufour.....	" ".....	1328	25 00
	G. L. Pitts.....	" ".....	1329	30 00
	C. F. Dowd.....	" ".....	1330	20 00
	E. Conway.....	" ".....	1331	20 00
	E. H. Moore.....	" ".....	1332	60 00
	N. P. Oglesby.....	" ".....	1333	40 00
	D. A. Kohr.....	" ".....	1334	60 00
	J. F. Jeffrey.....	" ".....	1335	10 00
	J. W. Groves.....	" ".....	1336	50 00
	C. L. E. Moore.....	" ".....	1337	10 00
	G. V. Bailey.....	Work.....	1338	32 00
Dec. 1	Mrs. M. P. Kellenberger	Serv. dom. econ.....	1339	20 00
Nov. 27	T. C. Mendenhall.....	Exp. Orton Mem. Serv.	1340	51 50
	G. K. Gilbert.....	" ".....	1341	34 50
	C. H. Woodruff.....	Carpentry.....	1342	65 00
	T. J. Godfrey.....	Expenses as trustee.....	1343	35 25
	Lily Weeks.....	Gym. services.....	1344	5 00
28	Kate Shanahan.....	Laundry.....	1345	25 00
	R. M. Rownd, P. M....	Postage stamps.....	1346	18 00
Dec. 1	Clinton Nat. Bank.....	Paymt. certfs. indebt...	1347	30,000 00
	D. F. Pugh.....	Adv. in Oct., salary....	1348	20 00
2	Ohio Nat. Bank.....	Bill of exchange.....	1349	564 04
1	J. McLain Smith.....	Expenses as trustee.....	1350	7 35
5	Col. Gas Co.....	Gas.....	1351	139 80
	Lily Weeks.....	Gym. services.....	1352	3 00
6	R. M. Rownd, P. M....	Stamps.....	1353	10 00
	G. Bruder.....	Band instruction.....	1354	26 00
	W. F. Hunter.....	Stamps.....	1355	3 50
9	F. C. Clark.....	Office supplies.....	1356	1 95
	H. Powell.....	Clerical work.....	1357	*10 00
	Mason Snow.....	Work in library.....	1358	8 60
	J. W. Shaw.....	" ".....	1359	8 95
	S. N. Young.....	" ".....	1360	9 05
	Mabel Rice.....	" ".....	1361	2 75
	Mabel Huddleson.....	" ".....	1362	10 50
	F. Fleischer.....	Wheeling coal.....	1363	40 50
	H. Kinnear.....	Wiring.....	1364	10 80
	A. M. Irwin.....	Campus work.....	1365	1 21
	N. A. Burgess.....	" ".....	1366	2 37
	F. W. Nelson.....	" ".....	1367	1 68
	Ira McKinley.....	" ".....	1368	1 12
	N. L. Seymour.....	Clerical work.....	1369	6 37
	F. J. Hale.....	Lab. work.....	1370	3 10
	G. G. Leinbaugh.....	Work.....	1371	1 35
	E. G. Bailey.....	Pipe fitting, etc.....	1372	14 00
	E. H. Bailey.....	" ".....	1373	4 05
	W. F. Magruder.....	Tel. work.....	1374	1 45
	W. L. Redrow.....	Student work.....	1375	3 30
	R. W. Funk.....	Labor in store room....	1376	27 15
	J. H. Nold.....	Work.....	1377	1 50
	K. H. Duncan.....	St. car t'ck'ts for guides	1378	5 00
	W. R. Lazenby.....	R. R. ticket to London..	1379	6 00
	W. G. Wallace.....	Guide.....	1380	4 75

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Dec. 9	R. Thompson.....	Guide .....	1381	\$4 38
	E. L. Orndorff.....	" .....	1382	4 13
	F. C. McKinney.....	" .....	1383	3 38
	F. C. Long.....	" .....	1384	3 50
	W. D. Gibbs.....	Advertising .....	1385	6 00
	R. E. McIntosh.....	Labor .....	1386	9 70
	G. G. Linebaugh.....	" .....	1387	6 83
	F. J. Tyler.....	" .....	1388	2 25
	G. V. Bailey.....	" .....	1389	12 00
	A. S. Watts.....	" .....	1390	29 25
	Andrew Spittal.....	Labor in physics dept..	1391	51 81
	H. J. Hammond.....	" .....	1392	7 26
	Laura L. Hill.....	Clerical work .....	1393	13 00
	Wm. Erdman .....	Student labor .....	1394	6 00
	M. C. Hunter.....	" .....	1395	11 70
	G. M. Berndroth.....	" .....	1396	24 00
	M. L. Seymour.....	Clerical work botany....	1397	14 23
	B. LeBay.....	Work .....	1398	34 50
	W. Watters.....	Labor in trench.....	1399	34 50
	S. E. Canfield.....	Supplies .....	1400	3 00
	M. D. Geary.....	Carpenter work .....	1401	20 75
	W. Morelan .....	" .....	1402	12 75
	J. W. Cawthon.....	" .....	1403	19 75
	A. F. Wilcox.....	" .....	1404	24 75
	J. H. Randall.....	" .....	1405	32 75
	Col. Brass Co.....	Supplies .....	1406	9 15
	W. Burdell .....	Repair medicine balls...	1407	3 00
	Col. Mill & Mine S. Co.	Pipe and supplies.....	1408	47 32
	Baker & Adamson C. Co.	Supplies .....	1409	33 47
	Kimball & Matthews....	" .....	1410	5 59
	Chgo. Blue P. Paper Co.	Blue print paper.....	1411	5 60
	Bausch & Lomb Opt. Co.	Supplies .....	1412	24 03
	Amer. Aristotype Co....	" .....	1413	9 24
	Chic. Lab. Sup. Co.....	" .....	1414	95 40
	Kauffman-Lattimer Co..	Drugs and Sundries....	1415	168 88
	Acme Paving Co.....	Cementing bath room...	1416	28 65
	Wolfgram Guitar Co....	Piano rent .....	1417	7 50
	McAllister, Moh. & Co.	Two stands .....	1418	2 00
	Domestic Laundry .....	Towels for November...	1419	28 25
	Burrows Bros. Co.....	Books, etc.....	1420	73 45
	Seraphim Book Bdg. Co.	Binding .....	1421	14 60
	C. of B. of E. N. Dept.	Nautical almanac .....	1422	3 00
	N. P. Hyndeman.....	Map Pgh. coal region..	1423	4 00
	H. Braun Sons & Co....	Supplies .....	1424	22 75
	Spahr & Glenn.....	Printing .....	1425	45 00
	Engelke & Bigelow....	Freight and cartage....	1426	37 55
	Krauss, Butler & B. Co.	Shades .....	1427	19 00
	Cherington P. & E. Co.	Stamps .....	1428	75
	Nitschke Bros .....	Printing, etc.....	1429	13 00
	E. Doddington & Co....	Lumber, etc.....	1430	127 80
	Hann & Adair.....	Printing .....	1431	30 94
	Champlin Printing Co..	" .....	1432	64 75
	Tallmadge Hdw. Co....	Supplies .....	1433	34 40
	G. E. Stechert.....	Books .....	1434	85 02
	M. C. Lilley & Co.....	Supplies .....	1435	73 50
	J. M. & W. Westwater..	" .....	1436	77 10
	W. U. Tel. Co.....	Telegrams .....	1437	2 11
	A. S. W. Huffman.....	Supplies .....	1438	27 82
	Erner & Hopkins.....	" .....	1439	20 72
	R. A. McClure.....	Stakes .....	1440	6 25
	H. Haerlein .....	Profess. services .....	1441	47 60

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Dec. 9	Reserve Cons. Co.....	1000 bricks.....	1442	\$7 50
	Electric Appl. Co.....	Supplies .....	1443	48 70
	Fultonham B. & Tile Co.	Brick .....	1444	138 00
	E. C. Niederlander.....	Painting signs .....	1445	4 20
	W. D. Gibbs.....	Drayage, etc.....	1446	60
	Gus. C. Henning.....	Pocket recorder .....	1447	112 50
	Crosby St. G. & V. Co.	Steam fittings .....	1448	29 10
	G. H. Barnes.....	Calorimeter connections	1449	5 00
	Alpha Dairy Co.....	Milk tickets .....	1450	2 56
	Lawton & Co.....	Paper and inks.....	1451	6 50
	Hager & Graves.....	Groceries .....	1452	38 99
	Col. Gas Co.....	Welsbach lights .....	1453	1 50
	Eimer & Amend.....	Chart, stopples, etc.....	1454	17 46
	Gardiner M. Lane.....	Book .....	1455	3 48
	Charles W. Harper.....	Adv. cuts .....	1456	8 05
	Kelton & Converse.....	Lumber .....	1457	2 70
	McClelland & Co.....	Supplies .....	1458	10 65
	Richmond Chair Co....	Chairs .....	1459	75 00
	Col. Wire and Iron Wks.	Mats .....	1460	10 50
	Strobridge Litho. Co..	Commissions & warrants	1461	35 00
	Money Penny-Ham'd. Co.	500 Bull .....	1462	4 50
	Orvis & Marshall.....	Carbon paper .....	1463	3 00
	Webb. Sta. & Ptg. Co..	Office supplies .....	1464	13 35
	Masury, Young & Co..	Cyl. oil .....	1465	18 03
	L. Hirsch, Prest.....	Adv. in German paper.	1466	16 00
	Stumpf & Steurer.....	Advertising .....	1467	32 00
	Lawrence Pub. Co.....	" .....	1468	192 78
	O. S. Journal Co.....	" .....	1469	15 00
	Schoedinger, F'r'n & Co.	Screws and washers....	1470	40
	Oscar S. Lear.....	Paper and ink.....	1471	4 00
	Elec. Sup. & Cons. Co..	Wire .....	1472	2 84
	F. G. Howall & Co.....	Rollers .....	1473	50
	Z. L. White & Co.....	Cheese cloth .....	1474	1 00
	Cap. City Mchn. Works.	Supplies .....	1475	38 50
	Osborn, Will's & Horn.	Coal .....	1476	31 42
	Murray City Coal Co..	" .....	1477	485 93
	C. L. Wottring.....	Manure .....	1478	19 50
	The Macmillan Co.....	Bonar Malthus .....	1479	3 19
	Charles Dury .....	Expense sea lion skins..	1480	15 00
	J. C. Pugh.....	Mounting charts .....	1481	11 00
	Riddle & Son.....	Cans and repairs.....	1482	6 15
	Columbus Gas Co.....	Coke .....	1483	9 62
	Col. Tent & Awning Co.	Strainers .....	1484	7 20
	Hausmann & Dunn....	Instruments .....	1485	18 00
	Sells & Co.....	Feed .....	1486	20 75
	Pitz Bros .....	Two tons shorts.....	1487	28 00
	Glucose Sugar Ref. Co.	Gluten meal .....	1488	84 00
	Blackwood, Green & Co.	Repairs and supplies....	1489	8 17
	Creamery Pkg. Mfg. Co.	Jars, brushes, etc.....	1490	51 63
	R. M. Ramsey.....	1 box Lenox soap.....	1491	3 25
	Wm. Burdell, Jr.....	Pipe, repairs, etc.....	1492	89 02
	W. H. Anderson & Co..	Mass. and N. Y. Reports	1493	4 75
	James Ohlen Sons & Co.	27 foot steel.....	1494	6 75
	G. G. Quincy & Co.....	Sheeting .....	1495	4 00
	The L. S. Starrett Co..	Supplies .....	1496	12 90
	The Jeffrey Mfg. Co....	Shafting, etc.....	1497	53 21
	Nicholson File Co.....	Files .....	1498	20 80
	Cincinnati S. & T. Co..	Bolts, nuts, etc.....	1499	34 61
	Yost & Packard.....	Services as architects....	1500	35 00
	J. S. Abbott & Co.....	Supplies .....	1501	13 69
	Batterson Decorative Co.	Working in house.....	1502	41 35



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Dec. 9	J. J. Gheen.....	Plastering .....	1503	\$3 60
	J. C. Howard.....	Painting .....	1504	95 00
	Hanna Paint Mfg. Co..	1 gallon golden gloss...	1505	3 50
	C. T. Phillips.....	Papering etc.....	1506	26 15
	Col. Supply Co.....	Supplies .....	1507	42 43
	Lily Weeks.....	Gym. work .....	1508	5 00
	M. J. Kellenberger....	Work .....	1509	25 00
	Thos. F. Hunt.....	Salary Dec. 1899.....	1510	250 00
16	W. O. Thompson.....	" .....	1511	416 67
	Alexis Cope .....	" .....	1512	187 50
	Carl E. Steeb.....	" .....	1513	50 00
	Katherine Duncan .....	" .....	1514	54 17
	G. W. Knight.....	" .....	1515	250 00
	W. F. Hunter.....	" .....	1516	250 00
	A. M. Bleile.....	" .....	1517	225 00
	C. N. Brown.....	" .....	1518	225 00
	A. C. Barrows.....	" .....	1519	225 00
	R. D. Bohannon.....	" .....	1520	225 00
	B. L. Bowen.....	" .....	1521	225 00
	S. C. Derby.....	" .....	1522	225 00
	J. V. Denney.....	" .....	1523	225 00
	E. A. Eggers.....	" .....	1524	225 00
	J. P. Gordy.....	" .....	1525	225 00
	W. A. Kellerman.....	" .....	1526	225 00
	W. R. Lazenby.....	" .....	1527	225 00
	Wm. McPherson.....	" .....	1528	225 00
	W. F. Magruder.....	" .....	1529	225 00
	H. Osborn .....	" .....	1530	225 00
	J. R. Smith.....	" .....	1531	225 00
	W. H. Scott.....	" .....	1532	225 00
	B. F. Thomas.....	" .....	1533	225 00
	H. A. Weber.....	" .....	1534	225 00
	N. W. Lord.....	" .....	1535	200 00
	F. A. Ray.....	" .....	1536	200 00
	G. B. Kauffman.....	" .....	1537	200 00
	Edward Orton .....	" .....	1538	180 00
	J. N. Bradford.....	" .....	1539	180 00
	F. E. Sanborn.....	Sal., bal. of Sept-Oct.	1540	240 00
	H. C. Lord.....	Salary, Dec., 1899.....	1541	160 00
	F. C. Clark.....	" .....	1542	160 00
	G. W. McCoard.....	" .....	1543	160 00
	C. P. Linhart.....	" .....	1544	160 00
	D. S. White.....	" .....	1545	160 00
	F. C. Caldwell.....	" .....	1546	160 00
	E. A. Hitchcock.....	" .....	1547	150 00
	C. S. Prosser.....	" .....	1548	150 00
	W. D. Gibbs.....	" .....	1549	160 00
	P. G. Bowman.....	" .....	1550	140 00
	W. H. Page.....	" .....	1551	140 00
	W. H. Siebert.....	" .....	1552	135 00
	S. A. Norton.....	" .....	1553	120 00
	E. B. Kinkead.....	" .....	1154	120 00
	J. E. Boyd.....	" .....	1555	120 00
	H. C. Allen.....	" .....	1556	115 00
	C. E. Sherman.....	" .....	1557	110 00
	T. E. French.....	" .....	1558	110 00
	J. R. Taylor.....	" .....	1559	110 00
	C. W. Mesloh.....	" .....	1560	110 00
	A. W. Hodgman.....	" .....	1561	110 00
	J. H. Schaffner.....	" .....	1562	100 00
	W. E. Henderson.....	" .....	1563	100 00

## STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Dec. 16	J. A. Bownocker.....	Salary, Dec., 1899.....	1564	\$100 00
	W. A. Knight.....	" " ".....	1565	100 00
	C. L. Arnold.....	" " ".....	1566	100 00
	K. D. Swartzel.....	" " ".....	1567	100 00
	C. B. Morrey.....	" " ".....	1568	100 00
	W. L. Graves.....	" " ".....	1569	100 00
	C. A. Bruce.....	" " ".....	1570	100 00
	F. M. Hamilton.....	" " ".....	1571	80 00
	G. H. McKnight.....	" " ".....	1572	90 00
	Wm. Renck.....	" " ".....	1573	85 00
	J. S. Hine.....	" " ".....	1574	85 00
	F. L. Landacre.....	" " ".....	1575	85 00
	C. P. Crowe.....	" " ".....	1576	80 00
	A. E. Vinson.....	" " ".....	1577	80 00
	F. E. Kester.....	" " ".....	1578	80 00
	S. E. Canfield.....	" " ".....	1579	75 00
	E. O. Randall.....	" " ".....	1580	70 00
	D. F. Pugh.....	" " ".....	1581	95 00
	W. F. Lavery.....	" " ".....	1582	70 00
	C. B. Frederick.....	" " ".....	1583	70 00
	J. B. Sanborn.....	" " ".....	1584	70 00
	E. E. Somermeier.....	" " ".....	1585	70 00
	T. K. Lewis.....	" " ".....	1586	60 00
	F. A. Fish.....	" " ".....	1587	60 00
	O. V. Brumley.....	" " ".....	1588	50 00
	Silas Martin.....	" " ".....	1589	50 00
	A. V. Bleininger.....	" " ".....	1590	40 00
	J. B. Parker.....	" " ".....	1591	30 00
	M. Dresbach.....	" " ".....	1592	30 00
	D. A. Kohr.....	" " ".....	1593	60 00
	H. C. Gore.....	" " ".....	1594	30 00
	J. H. Vosskuehler.....	" " ".....	1595	30 00
	A. H. McIntire.....	" " ".....	1596	30 00
	E. L. Ball.....	" " ".....	1597	30 00
	J. W. Young.....	" " ".....	1598	30 00
	F. J. Hale.....	" " ".....	1599	30 00
	H. W. Brown.....	" " ".....	1600	25 00
	S. W. Collett.....	" " ".....	1601	25 00
	J. H. Collins.....	" " ".....	1602	20 00
	J. A. Shauck.....	" " ".....	1603	17 50
	E. H. Bailey.....	" " ".....	1604	15 00
	R. E. McIntosh.....	" " ".....	1605	12 50
	W. C. McCracken.....	" " ".....	1606	150 00
	O. B. Jones.....	" " ".....	1607	135 00
	E. E. Harold.....	" " ".....	1608	90 00
	J. P. Covan.....	" " ".....	1609	70 00
	G. R. Rose.....	" " ".....	1610	65 00
	F. Ruhlen.....	" " ".....	1611	60 00
	A. F. Hall.....	" " ".....	1612	60 00
	E. D. Cockins.....	" " ".....	1613	58 33
	C. B. Guittard.....	" " ".....	1614	55 00
	H. N. Townshend.....	" " ".....	1615	55 00
	G. Kellicott.....	" " ".....	1616	55 00
	M. D. Jeffrey.....	" " ".....	1617	55 00
	Lucy Allen.....	" " ".....	1618	55 00
	C. M. Low.....	" " ".....	1619	54 17
	F. K. Luke.....	" " ".....	1620	50 00
	W. Standley.....	" " ".....	1621	50 00
	B. LeBay.....	" " ".....	1622	50 00
	D. C. Huddleson.....	" " ".....	1623	50 00
	T. Boude.....	" " ".....	1624	45 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Dec. 16	W. H. Case.....	Salary, Dec., 1899.....	1625	\$45 00
	M. Peck .....	" " .....	1626	40 00
	A. Chantler .....	" " .....	1627	45 00
	G. A. Goodspeed.....	" " .....	1628	40 00
	J. H. Brown.....	" " .....	1629	40 00
	D. D. Geren.....	" " .....	1630	40 00
	W. Whitestone.....	" " .....	1631	40 00
	H. Chantler .....	" " .....	1632	40 00
	G. C. Denny.....	" " .....	1633	40 00
	M. N. Cook.....	" " .....	1634	40 00
	T. E. Osburn.....	" " .....	1635	40 00
	W. Townsel .....	" " .....	1636	25 00
	J. Garrettson .....	" " .....	1637	37 39
	E. R. Hubler .....	" " .....	1638	33 33
	James Kelley .....	" " .....	1639	25 00
	W. C. Weir.....	" " .....	1640	20 00
	J. D. Decker.....	" " .....	1641	140 00
	Alice Dufour .....	" " .....	1642	25 00
	J. F. Jeffrey.....	" " .....	1643	10 00
	J. W. Groves.....	" " .....	1644	50 00
	Wm. Cannan .....	" " .....	1645	20 00
	W. E. Mann.....	" " .....	1646	25 00
	Grace Pitts .....	" " .....	1647	30 00
	W. C. Mills.....	" " .....	1648	35 00
	E. H. Moore.....	" " .....	1649	20 00
	F. O. Clements.....	" " .....	1650	45 00
	H. C. Price.....	" " .....	1651	60 00
	C. L. E. Moore.....	" " .....	1652	10 00
	C. A. Grate.....	" " .....	1653	30 00
	W. A. Landacre.....	" " .....	1654	70 00
	N. P. Oglesby.....	" " .....	1655	40 00
	C. F. Dowd.....	" " .....	1656	20 00
	Benj. Irwin .....	" " .....	1657	45 00
	J. C. Perry.....	" " .....	1658	12 50
	A. G. McCall.....	" " .....	1659	20 00
	W. Conklin .....	" " .....	1660	40 00
	Earl Conway .....	" " .....	1661	20 00
	C. H. Woodruff.....	" " .....	1662	65 00
15	Helen Potts.....	Accp. in gym.....	1663	5 50
	Edith Seymour .....	" " .....	1664	3 00
	Lily Weeks .....	Gym. work .....	1665	5 00
1900				
Jan. 5	Col. Gas Co.....	Gas for December.....	1666	136 42
	Wm. Cannan .....	Fee and store room.....	1667	12 50
	Lily Weeks .....	Salary, one week .....	1668	5 00
	R. M. Rownd, P. M....	Stamped envelopes .....	1669	85 60
	Frank C. White.....	Return fees, pro rata .....	1670	5 00
	C. R. Monsarrat.....	Fees C. H. Evans .....	1671	5 00
	Edna Luse .....	Return of fees.....	1672	5 00
	Daniel C. Keller.....	" " .....	1673	8 00
	Blanche Powell .....	" " .....	1674	5 00
	E. D. Easton.....	" " .....	1675	7 00
	Mary E. Dow.....	" " .....	1676	6 00
	Morton Farrar.....	" " .....	1677	9 75
	Engelke & Bigelow.....	Freight and drayage....	1678	62 72
	Murray City Coal Co..	Coal .....	1679	950 56
	Osborn, Will's & Horn.	" .....	1680	57 42
	H. J. Hammond.....	Hospital supplies .....	1681	15 97
	C. B. Frederick.....	Anatomy horses .....	1682	38 50
	Fred Fleischer.....	Hauling coal .....	1683	39 00
	J. S. Abbott & Co.....	Glass, putty, etc.....	1684	49 03

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Dec. 5	E. Doddington & Co...	Lumber, etc.....	1685	\$34 52
	S. T. Hallsman.....	Labor .....	1686	6 30
	A. F. Wilcox.....	" .....	1687	20 75
	Wilbert Morelan .....	Carpenter work .....	1688	19 00
	E. J. Barton.....	" .....	1689	16 50
	J. H. Randall.....	" .....	1690	30 75
	The Tallmadge Hdw. Co.	Hardware, etc.....	1691	20 13
	Kelton & Converse.....	Lumber .....	1692	7 00
	Yale & Towne Mfg. Co.	Locks and keys.....	1693	2 45
	The Fish Stone Co.....	One sill and dray.....	1694	1 30
	M. C. Hunter.....	Work .....	1695	28 55
	Harry Kinnear .....	Wiring .....	1696	26 55
	Mason Snow .....	Student labor .....	1697	9 60
	R. D. DeWolf.....	" .....	1698	10 54
	Andrew Spittal .....	Labor .....	1699	29 76
	F. E. Sanborn.....	Money advanced .....	1700	48 00
	F. C. Clark.....	Supplies .....	1701	4 75
	Taylor, Williams & Co.	Coal .....	1702	6 25
	Laura L. Hill.....	Clerical work .....	1703	12 50
	A. F. Wilcox.....	Labor .....	1704	17 30
	S. N. Young.....	" .....	1705	9 45
	J. H. Randall.....	" .....	1706	4 25
	J. W. Shaw.....	" .....	1707	7 95
	Grace Young .....	" .....	1708	3 35
	W. D. Gibbs, Mgr.....	500 copies book.....	1709	18 00
	Metta Seymour .....	Clerical services .....	1710	4 65
	S. C. Derby.....	Lantern slides .....	1711	9 35
	C. L. Sackett.....	Part pay. of contract...	1712	58 33
	James LeBay .....	Cleaning cistern .....	1713	3 00
	Gustav Bruder .....	Band instruction .....	1714	24 00
	F. C. McKinney.....	Student labor .....	1715	10 00
	C. E. Miller.....	Plan and blue prints...	1716	19 25
10	Philip Long .....	Buffet lunch and meals..	1717	148 20
	F. C. Long.....	Guide work .....	1718	2 88
	Roy Thompson .....	" .....	1719	3 88
	W. G. Wallace.....	" .....	1720	3 75
	Annis McLaughlin .....	Clerical work .....	1721	2 55
	Wm. T. Magruder.....	Money advanced .....	1722	3 50
	Earl Orndorff .....	Guide work .....	1723	5 25
	Helen Powell .....	Clerical work .....	1724	4 50
	F. J. Hale.....	Labor .....	1725	12 53
	Grace Eagleson .....	Clerical work .....	1726	2 55
	E. G. Bailey.....	Labor .....	1727	6 25
	C. P. Linhart.....	Supplies .....	1728	3 00
	O. I. Dick.....	Student labor .....	1729	4 93
	J. M. Barringer.....	" .....	1730	1 95
	J. C. Britton.....	" .....	1731	1 50
	Wm. R. Lazenby.....	Department supplies ..	1732	4 35
	S. A. Norton.....	Book .....	1733	2 90
	Olive Jones .....	Money advanced .....	1734	11 48
	American Book Co.....	Book .....	1735	40 00
	Hann & Adair.....	Printing questions .....	1736	2 75
	Edward Thompson & Co.	Am. Ency. Law.....	1737	6 00
	W. H. Anderson & Co..	Reports .....	1738	8 50
	Sunday Creek Coal Co..	Coal .....	1739	30 03
	James Seaman .....	Insect cases .....	1740	40 00
	George Wahr .....	Books .....	1741	7 50
	Samuel Henshaw.....	Subs. to Psyche.....	1742	5 00
	Library Bureau .....	Cabinets and cards.....	1743	32 50
	R. R. Bowker.....	2 copies state publicat'ns	1744	4 00
	The Boston Book Co...	Books .....	1745	1 60



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Jan. 10	G. E. Stechert.....	Books, etc.....	1746	\$5 20
	W. H. Loudermilk & Co.	President's message ....	1747	4 56
	G. P. Humphreys.....	Colonial tracts .....	1748	5 50
	The Seraphim B. B. Co.	Binding .....	1749	36 45
	Louis Siebert .....	Knives and pincers.....	1750	1 35
	Burrows Bros. Co.....	Books .....	1751	61 15
	Chicago Blue P. P. Co.	Blue print paper.....	1752	2 40
	Emil Greiner .....	Tubes, etc.....	1753	12 25
	Kauffman, Lattimer ...	Drugs and sundries.....	1754	170 54
	Eimer & Amend.....	Chemicals .....	1755	96 20
	Keyless Lock Co.....	Locks and repairs.....	1756	3 75
	Domestic Laundry .....	Laundry work .....	1757	17 75
	The H. Cole Co.....	Supplies .....	1758	26 49
	Bausch & Lomb Opt. Co.	No. 22 Coddington.....	1759	1 15
	G. W. Clarke & Co.....	Stakes .....	1760	5 38
	L. P. Bailey.....	Advertisement .....	1761	12 00
	H. Goldsmith .....	Music and repairs .....	1762	5 95
	L. C. Maddox.....	Advertisement .....	1763	10 0.
	Nat. Stockman & Farm.	" .....	1764	78 25
	Perry Smythe .....	Framing picture .....	1765	5 10
	Akron China Co.....	Bisque wall .....	1766	1 00
	Col. Sewer Pipe Co.....	Pipes .....	1767	85
	J. & G. Butler.....	1 box soap.....	1768	7 50
	Schaffer & Budenberg..	1 Tachometer and charts	1769	156 50
	Crosby S. G. & V. Co...	Repairing .....	1770	4 56
	Mrs. Weisner, Secy....	Adv. in Rep. W. C. T. U.	1771	15 00
	Adams & Bagnall Co...	Globes, etc.....	1772	3 66
	J. S. Bushnell.....	Paper and cord.....	1773	5 20
	W. H. Miller Co.....	Supplies .....	1774	215 56
	Col. Machine Co.....	Rubber .....	1775	2 00
	Crane & Co.....	Valves .....	1776	9 18
	West. Union Tel. Co...	Telegrams .....	1777	1 54
	India Alk. Wks.....	1 barrel savogran.....	1778	17 94
	The Lunkenheimer Co..	Valves, etc.....	1779	25 06
	B. F. Goodrich Co.....	Mats, etc.....	1780	30 28
	Webb Sta. & Print. Co.	Office supplies .....	1781	18 15
	John Wanamaker .....	Books .....	1782	25 60
	Standard Oil Co.....	Oil and gasoline.....	1783	13 64
	W. S. Orvis.....	Paper and ribbon.....	1784	3 90
	Cent. O. Paper Co.....	Paper .....	1785	92 30
	Nonotuck Silk Co.....	Silk cult. cabinet.....	1786	2 50
	Kemp & Burpee Mg. Co.	Manure spreader .....	1787	50 00
	J. H. & F. A. Heyl....	Lumber .....	1788	16 55
	Creamery Pkg. Mfg. Co.	Caps and supplies.....	1789	23 05
	W. B. Smith & Son....	Cow .....	1790	50 00
	Alpha Dairy Co.....	Milk tickets .....	1791	2 00
	Lewis Fink .....	Decorating, etc.....	1792	41 85
	Col. Brass Co.....	Closet and lid.....	1793	12 90
	C. L. Wottring.....	Manure .....	1794	5 00
	Haydenville M. & M. Co.	Fireclay .....	1795	2 50
	Franklin Toilet Co....	Towel service .....	1796	1 95
	J. Carbutt .....	Plates .....	1797	1 41
	J. T. Barlow.....	Freezing .....	1798	10 80
	Col. Gas Co.....	Coke .....	1799	10 20
	Col. Wire & Iron Wks.	Matting and device....	1800	5 88
	A. T. Thompson & Co..	Lamp and stand.....	1801	24 00
	E. G. Soltmann.....	Frames .....	1802	14 00
	McClelland & Co.....	Book .....	1803	60
	Keuffel & Esser Co....	Engineering instruments	1804	48 00
	Westinghouse Co .....	Coils, etc.....	1805	44 00
	The Col. M. & M. S. Co.	Hose .....	1806	10 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Jan. 10	Arthur Geren.....	Supplies .....	1807	\$5 53
	E. Doddington & Co....	Lumber .....	1808	23 97
	Fred Charles .....	Hauling .....	1809	5 36
	Blackwood, Green & Co.	Supplies .....	1810	23 37
	McMillan Co .....	Books .....	1811	8 06
	Champlin Printing Co..	Printing .....	1812	21 65
	Col. Supply Co.....	Supplies .....	1813	6 87
	J. M. & W. Westwater..	Lts and sockets.....	1814	6 36
	Schoedinger, F'rn & Co.	Supplies .....	1815	3 60
	Chicago Lab. Sup. Co...	" .....	1816	54 20
	Nitschke Bros .....	Printing .....	1817	24 95
	Tallmadge Hdw. Co....	Supplies .....	1818	7 78
	Elec. Appliance Co.....	Wire and switches.....	1819	24 81
	Erner & Hopkins.....	Supplies .....	1820	26 24
	Spahr & Glenn .....	Printing .....	1821	15 00
	Westinghouse Co .....	Transformer .....	1822	111 30
	Franklin Toilet Co.....	Towel service .....	1823	2 25
15	Lily Weeks .....	Gym. services .....	1824	5 00
20	Michigan Brush Co.....	Brushes .....	1825	22 05
22	W. O. Thompson.....	Salary Jan. 1900.....	1826	416 67
	Carl E. Steeb.....	" .....	1827	60 00
25	Alexis Cope .....	" .....	1828	187 50
27	Katherine Duncan.....	" .....	1829	54 17
	T. F. Hunt.....	" .....	1830	250 00
	G. W. Knight.....	" .....	1831	250 00
	W. F. Hunter.....	" .....	1832	250 00
	A. M. Bleile.....	" .....	1833	225 00
	C. N. Brown.....	" .....	1834	225 00
	A. C. Barrows.....	" .....	1835	225 00
	R. D. Bohannon.....	" .....	1836	225 00
	B. L. Bowen.....	" .....	1837	225 00
	S. C. Derby.....	" .....	1838	225 00
	J. V. Denney.....	" .....	1839	225 00
	E. A. Eggers.....	" .....	1840	225 00
	J. P. Gordy.....	" .....	1841	225 00
	W. A. Kellerman.....	" .....	1842	225 00
	W. R. Lazenby.....	" .....	1843	225 00
	Wm. McPherson .....	" .....	1844	225 00
	W. T. Magruder.....	" .....	1845	225 00
	H. Osborn .....	" .....	1846	225 00
	J. R. Smith.....	" .....	1847	225 00
	W. H. Scott.....	" .....	1848	225 00
	B. F. Thomas.....	" .....	1849	225 00
	H. A. Weber.....	" .....	1850	225 00
	N. W. Lord.....	" .....	1851	200 00
	F. A. Ray.....	" .....	1852	200 00
	G. B. Kauffman.....	" .....	1853	200 00
	Edward Orton .....	" .....	1854	180 00
	J. N. Bradford.....	" .....	1855	180 00
	F. E. Sanborn.....	" .....	1856	200 00
	H. C. Lord.....	" .....	1857	160 00
	F. C. Clark.....	" .....	1858	160 00
	G. W. McCoard.....	" .....	1859	160 00
	C. P. Linhart.....	" .....	1860	160 00
	D. S. White.....	" .....	1861	160 00
	F. C. Caldwell.....	" .....	1862	160 00
	E. A. Hitchcock.....	" .....	1863	150 00
	C. S. Prosser.....	" .....	1864	150 00
	W. D. Gibbs.....	" .....	1865	160 00
	P. G. Bowman.....	" .....	1866	140 00
	W. H. Page.....	" .....	1867	140 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Jan. 27	W. H. Siebert.....	Salary Jan. 1900.....	1868	\$135 00
	S. A. Norton.....	" " .....	1869	120 00
	E. B. Kinkead. ....	" " .....	1870	120 00
	J. E. Boyd.....	" " .....	1871	120 00
	J. E. Allen.....	" " .....	1872	115 00
	C. E. Sherman.....	" " .....	1873	110 00
	T. E. French.....	" " .....	1874	110 00
	J. R. Taylor.....	" " .....	1875	110 00
	C. W. Mesloh.....	" " .....	1876	110 00
	A. W. Hodgman.....	" " .....	1877	110 00
	J. H. Schaffner.....	" " .....	1878	110 00
	W. E. Henderson.....	" " .....	1879	100 00
	J. A. Bownocker.....	" " .....	1880	100 00
	W. A. Knight.....	" " .....	1881	100 00
	C. L. Arnold.....	" " .....	1882	100 00
	K. D. Swartzel.....	" " .....	1883	100 00
	C. B. Morrey.....	" " .....	1884	100 00
	W. L. Graves.....	" " .....	1885	100 00
	C. A. Bruce.....	" " .....	1886	100 00
	F. M. Hamilton.....	" " .....	1887	80 00
	Geo. H. McKnight.....	" " .....	1888	90 00
	W. A. Landacre.....	" " .....	1889	70 00
	Wm. Renck .....	" " .....	1890	85 00
	J. S. Hine.....	" " .....	1891	85 00
	F. L. Landacre.....	" " .....	1892	85 00
	C. P. Crowe.....	" " .....	1893	80 00
	A. E. Vinson.....	" " .....	1894	80 00
	C. P. Souther.....	" " .....	1895	80 00
	F. E. Kester.....	" " .....	1896	80 00
	S. E. Canfield.....	" " .....	1897	75 00
	E. O. Randall.....	" " .....	1898	70 00
	D. F. Pugh.....	" " .....	1899	95 00
	W. F. Lavery.....	" " .....	1900	70 00
	C. B. Frederick.....	" " .....	1901	70 00
	J. B. Sanborn.....	" " .....	1902	70 00
	E. E. Sommermeier.....	" " .....	1903	70 00
	T. K. Lewis.....	" " .....	1904	60 00
	F. A. Fish.....	" " .....	1905	60 00
	O. V. Brumley.....	" " .....	1906	50 00
	Silas Martin.....	" " .....	1907	50 00
	A. V. Bleiningner.....	" " .....	1908	40 00
	J. B. Parker.....	" " .....	1909	30 00
	M. Dresbach.....	" " .....	1910	30 00
	D. A. Kohr.....	" " .....	1911	30 00
	H. C. Gore.....	" " .....	1912	30 00
	J. H. Vosskuehler.....	" " .....	1913	30 00
	A. H. McIntire.....	" " .....	1914	30 00
	E. L. Ball.....	" " .....	1915	30 00
	J. W. Young.....	" " .....	1916	30 00
	C. A. Grate.....	" " .....	1917	30 00
	F. J. Hale.....	" " .....	1918	30 00
	S. W. Collett.....	" " .....	1919	25 00
	H. W. Brown.....	" " .....	1920	25 00
	J. H. Collins.....	" " .....	1921	20 00
	J. A. Shauck.....	" " .....	1922	17 50
	E. G. Bailey.....	" " .....	1923	15 00
	R. E. McIntosh.....	" " .....	1924	12 50
	W. C. McCracken.....	" " .....	1925	150 00
	O. B. Jones.....	" " .....	1926	135 00
	E. E. Harrold.....	" " .....	1927	90 00
	J. P. Covan.....	" " .....	1928	70 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Jan. 27	G. A. Rose.....	Salary Jan. 1900.....	1929	\$65 00
	F. Ruhlen .....	" " .....	1930	60 00
	A. F. Hall.....	" " .....	1931	60 00
	E. D. Cockins.....	" " .....	1932	58 33
	C. B. Guittard.....	" " .....	1933	55 00
	H. N. Townshend.....	" " .....	1934	55 00
	G. S. Kellicott.....	" " .....	1935	55 00
	Maude Jeffrey .....	" " .....	1936	55 00
	Lucy Allen .....	" " .....	1937	55 00
	C. M. Low .....	" " .....	1938	54 17
22	Lily Weeks .....	Gym. work .....	1939	5 00
27	F. K. Luke.....	Salary Jan. 1900.....	1940	50 00
	H. C. Price.....	" " .....	1941	60 00
	W. Standley .....	" " .....	1942	50 00
	B. LeBay .....	" " .....	1943	50 00
	D. C. Huddleson.....	" " .....	1944	50 00
	T. Boude .....	" " .....	1945	45 00
	W. H. Case.....	" " .....	1946	45 00
	M. Peck .....	" " .....	1947	40 00
	A. Chantler .....	" " .....	1948	45 00
	G. A. Goodspeed.....	" " .....	1949	40 00
	J. H. Brown.....	" " .....	1950	40 00
	D. D. Geren.....	" " .....	1951	40 00
	W. Whitestone.....	" " .....	1952	40 00
	H. Chantler .....	" " .....	1953	40 00
	G. C. Denney.....	" " .....	1954	40 00
	M. N. Cook.....	" " .....	1955	40 00
	F. E. Osborn.....	" " .....	1956	40 00
	W. Townsel .....	" " .....	1957	25 00
	J. C. Perry.....	" " .....	1958	12 50
	J. Garrettson .....	" " .....	1959	37 39
	E. R. Hubler.....	" " .....	1960	33 33
	J. Kelly .....	" " .....	1961	25 00
	W. C. Weir.....	" " .....	1962	20 00
	A. G. McCall.....	" " .....	1963	20 00
	C. H. Woodruff.....	" " .....	1964	65 00
	E. Conway .....	" " .....	1965	20 00
	W. Conklin .....	" " .....	1966	40 00
	Benj. Irwin .....	" " .....	1967	45 00
	C. F. Dowd.....	" " .....	1968	20 00
	N. P. Oglesby.....	" " .....	1969	40 00
	J. W. Decker.....	" " .....	1970	140 00
	A. Dufour .....	" " .....	1971	25 00
	J. W. Groves.....	" " .....	1972	50 00
	W. Cannan .....	" " .....	1973	20 00
	W. E. Mann.....	" " .....	1974	25 00
	Grace Pitts .....	" " .....	1975	30 00
	Wm. C. Mills.....	" " .....	1976	35 00
	E. H. Moore.....	" " .....	1977	20 00
	C. L. E. Moore.....	" " .....	1978	10 00
	J. E. Jeffrey.....	" " .....	1979	10 00
	E. Smith.....	" " .....	1980	33 33
	D. A. Crouner.....	" " .....	1981	33 33
	C. S. Prosser.....	Office supplies.....	1982	1 45
	M. J. Kellenberger.....	Services .....	1983	21 43
	D. A. Kohr.....	Bal. of January salary.	1894	30 00
Feb. 1	Lily Weeks .....	Janitress .....	1985	5 00
6	Lily Weeks .....	Gym. services .....	1986	5 00
7	Col. Gas Co.....	Gas for January.....	1987	161 02
8	Nora Heath .....	Excess of fees, act 3, 14, '89 .....	1988	2 00



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Jan. 12	Lily Weeks.....	Salary .....	1989	\$5 00
15	C. N. Mooney.....	Stamp and pad.....	1990	1 25
	Arthur Geren .....	Drawing utensils .....	1991	5 40
	W. L. Redrow.....	Lab. assistance .....	1992	17 75
	C. P. Linville.....	" " .....	1993	5 80
	F. C. Clark.....	Dept. supplies .....	1994	3 55
	James G. Sterling.....	Student labor .....	1995	6 88
	Frank W. Arnold.....	" " .....	1996	3 75
	Wm. Erdman .....	" " .....	1997	3 00
	M. C. Hunter.....	" " .....	1998	12 30
	O. I. Dick.....	" " .....	1999	9 23
	B. B. Wells.....	" " .....	2000	8 03
	B. F. Thomas.....	Dept. supplies .....	2001	5 61
	Andrew Spittal .....	Labor .....	2002	83 47
	M. C. Hunter.....	" .....	2003	2 48
	R. E. McIntosh.....	" .....	2004	10 88
	Ray McCallum .....	Adv. in student direc'y .....	2005	5 00
	M. B. Lamb.....	Flooring stalls .....	2006	4 80
	H. J. Hammond.....	Hospital supplies .....	2007	3 60
	Fred Fleischer .....	Wheeling coal .....	2008	16 50
	Richard Spencer .....	" " .....	2009	24 75
	E. H. Barton.....	Carpentry .....	2010	55 00
	A. F. Wilcox.....	" .....	2011	11 80
	Wilbert Morlan .....	" .....	2012	15 50
	J. W. Cawthon.....	" .....	2013	1 50
	J. H. Randall.....	" .....	2014	3 25
	Stella E. Canfield.....	Dept. supplies .....	2015	1 75
	Helen Potts .....	Piano playing .....	2016	4 00
	S. T. Hallsman.....	Painting .....	2017	80
	J. V. Denney.....	Department supplies .....	2018	2 00
	S. T. Barrows.....	Lang's Homer .....	2019	98
	J. A. Beer.....	Laboratory assistance ..	2020	3 60
	M. Dresbach.....	Department supplies ..	2021	7 62
	Metta Seymour .....	Clerical work .....	2022	4 75
	E. G. Bailey.....	Labor .....	2023	7 20
	R. R. Harkins.....	Drafting engine .....	2024	3 75
	F. J. Hale.....	Drafting .....	2025	2 50
	Arthur Geren .....	Supplies .....	2026	1 80
	Charles R. Hall.....	Package .....	2027	50
	William Garret .....	Steam fitting .....	2028	1 50
	Roger DeWolf .....	Wiring .....	2029	3 15
	Harry Kinnear .....	" .....	2030	13 05
	Edw. Orton .....	Drafting .....	2031	12 00
	Wm. McPherson .....	Supplies .....	2032	3 15
	W. O. Thompson.....	Maps .....	2033	2 40
	F. C. McKinney.....	Guide .....	2034	4 50
	Roy Thompson.....	" .....	2035	4 13
	Frank C. Long.....	" .....	2036	3 88
	W. G. Wallace.....	" .....	2037	9 13
	E. L. Orndorff.....	" .....	2038	4 00
	H. C. Herrick.....	" .....	2039	90
	Edith Seymour .....	Piano playing .....	2040	2 50
	R. W. Funk.....	Work in store room....	2041	25 00
	J. W. Shaw.....	Assistance law library...	2042	9 45
	S. N. Young.....	Library work.....	2043	10 90
	Mabel Huddleson.....	Library work.....	2044	10 50
	Mason Snow .....	Work in law library....	2045	11 50
	J. M. & W. Westwater..	Supplies .....	2046	10 00
	Cap. City Mchn. Wks..	" .....	2047	26 62
	Cherington P. & E. Co.	Stamp and pad .....	2048	1 10
	Nitschke Bros .....	Printing .....	2049	3 40

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Feb. 15	The McMillan Co.....	Books .....	2050	\$8 01
	Franklin Toilet Sup. Co.	Towel service .....	2051	6 75
	Palmer & Beck.....	Supplies .....	2052	39 61
	The Tallmadge Hd. Co.	Hardware .....	2053	21 14
	Spahr & Glenn.....	Printing .....	2054	12 75
	Schoedinger, F'r'n & Co.	Hardware .....	2055	29 58
	James Penn .....	Freight and drayage....	2056	3 04
	Blackwood, Green & Co.	Hardware .....	2057	44 26
	E. Doddington & Co....	Lumber .....	2058	23 74
	Bausch & Lomb Opt. Co.	Supplies .....	2059	5 20
	Columbus Supply Co....	Department supplies ..	2060	49 16
	G. E. Stechert.....	Books .....	2061	76 37
	Cent. O. Paper Co.....	Paper .....	2062	10 16
	H. Braun Sons & Co....	Instruments .....	2063	14 96
	Champlin Printing Co..	Printing .....	2064	17 50
	Hann & Adair.....	" .....	2065	2 85
	Miller Furniture Co....	Furniture .....	2066	47 90
	Murray City Coal Co...	Coal .....	2067	1,247 46
	Pharm. Rev. Pub. Co...	1 copy review for 1 year	2068	2 50
	Helman-Taylor Co .....	Index .....	2069	10 00
	Library Bureau .....	Cabinets and subscrip.	2070	33 00
	Engelke & Bigelow....	Freight and drayage....	2071	61 89
	Nat. Educational Assn.	Volume proceedings .....	2072	2 00
	C. A. Waldo.....	Proceedings, Vol VII....	2073	2 00
	H. L. Fairchild.....	Geol. Soc. of Am. Vol X	2074	5 00
	R. R. Bowker.....	Society publications .....	2075	2 50
	Am. S. of Mech. Eng..	Copy proceedings .....	2076	1 25
	Seraphim B. B. Co....	Binding .....	2077	29 90
	Burrows Bros. & Co....	Books .....	2078	99 03
	Ohio Furn. Co.....	Case and book case....	2079	81 00
	West. Elec. Inst. Co....	Supplies .....	2080	21 18
	Hann & Adair.....	Printing .....	2081	20 16
	Domestic Laundry .....	Towel washing .....	2082	22 32
	Funk & Wagnalls.....	Cyclopedia .....	2083	6 00
	Houghton-Mifflin Co...	Books .....	2084	2 76
	T. Y. Crowell & Co....	Book .....	2085	1 14
	John H. Grove.....	Insurance premium .....	2086	12 35
	Samuel Smith .....	Brush and blacking.....	2087	4 40
	Kelton & Converse....	Lumber .....	2088	1 07
	E. A. Kinsey Co.....	Steel .....	2089	5 36
	Nicholson File Co....	Files .....	2090	12 26
	G. B. Schulte Sons Co..	Steel .....	2091	10 60
	Spg. Mchn. & Tool Co..	Lathe .....	2092	570 00
	H. Kohlbusch .....	Weights .....	2093	6 04
	E. G. Smith.....	Calipers .....	2094	22 50
	Hyatt R. B. Co.....	Instrument .....	2095	7 59
	Hanna Paint Mfg. Co..	Paint and surfacer.....	2096	2 35
	Elec. Sup. & Const. Co..	Supplies .....	2097	33
	H. Cole Co.....	Telescope .....	2098	3 00
	W. I. Carruthers.....	Material and labor.....	2099	78 81
	Col. Gas Co.....	Coke .....	2100	8 16
	A. H. Cross, Mgr.....	Advertisement .....	2101	12 00
	Nat. Stockman & Farm.	Advertising .....	2102	63 00
	R. M. Donaldson.....	" .....	2103	5 00
	L. S. Wells.....	Books .....	2104	7 20
	Buntin Bros .....	Material for bandages...	2105	4 80
	L. P. Bailey.....	Advertisement .....	2106	4 00
	Reynolds Bros .....	Instruments .....	2107	6 60
	Sunday Creek Coal Co.	Coal .....	2108	49 88
	DeLaval Sep. Co.....	Rope belts .....	2109	1 75
	Watertown Ther. Co....	Thermometers .....	2110	9 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Feb. 15	C. L. Kiewert.....	Brushes .....	2111	\$7 50
	Howe Scale Co.....	Supplies .....	2112	8 00
	Creamery Package Co..	Supplies .....	2113	58 77
	D. H. Burrell & Co.....	Apparatus .....	2114	64 14
	Osborn, Will's. & Horn	Coal .....	2115	34 22
	M. Armbruster & Sons.	Scenery repairing .....	2116	2 00
	Ed. P. Budge.....	Engrav. of Dr. Orton...	2117	55 00
	Amer. Grange Bulletin..	Advertising .....	2118	18 90
	Webb Sta. & Ptg. Co...	Pad and ink .....	2119	75
	Globe Wernecke Co....	Cabinet .....	2120	136 00
	W. S. Orvis.....	Ribbon .....	2121	1 00
	O. S. Lear.....	Type writer repairs....	2122	4 00
	L. A. Harsh & Co.....	Mop pails .....	2123	3 00
	Standard Oil Co.....	Oil .....	2124	8 73
	J. M. Kerr.....	Window rubbers .....	2125	2 50
	McClelland & Co.....	Calendar pads .....	2126	55
	Leader Printing Co....	Advertising .....	2127	12 50
	Central Union Tel. Co..	Telephone service .....	2128	86 03
	E. B. Vorhees, Secy....	Mbrsp. ass. agr. colleges	2129	10 00
	Amer. Dist. Tel. Co....	Rent of boxes.....	2130	27 00
	Logan McCormick .....	Picture frame .....	2131	2 95
	T. J. Dundon & Co.....	Sawdust .....	2132	3 00
	Standard Oil Co.....	Oil .....	2133	88
	Westingh'se E. Mfg. Co.	Coils .....	2134	3 00
	Penna. Fuel Co.....	Lump coal .....	2135	2 75
	Col. Bolt Works.....	Bolts .....	2136	3 20
	Stand. Thermometer Co.	Globes .....	2137	40
	Sterling Arc Lamp Co..	" .....	2138	1 00
	Col. M. & Mine Sup. Co.	Supplies .....	2139	19 14
	The Elec. S. & C. Co...	" .....	2140	4 50
	Erner & Hopkins Co..	" .....	2141	22 63
	Kauffman, Lattimer Co.	Drugs and sundries....	2142	192 74
	Stillwell-Bierce - Smith-			
	Vaile Co., The.....	Pumps, etc .....	2143	1 00
	Sherwood Mfg. Co.....	Awning .....	2144	72
	Schaffer & Budenburg..	Thermometers .....	2145	18 00
	American Meter Co.....	Gauge meters .....	2146	7 90
	Deane Steam Pump Co..	Pumps .....	2147	202 35
	Andrew Kaiser .....	Sterilizers .....	2148	7 75
	Toledo Blade Co.....	Advertisement .....	2149	6 75
	Commercial Tribune Co.	" .....	2150	9 40
	Plain Dealer Pub Co...	" .....	2151	7 90
	O. S. Journal Pub. Co..	" .....	2152	7 50
	Carl Braun .....	Pressed cork .....	2153	5 00
	Philip Neel .....	Printing labels .....	2154	2 53
	J. S. Abbott & Co.....	Hardware .....	2155	16 75
	Longmans, Green & Co.	Books .....	2156	1 79
	L. Gasteloecci & Co....	Carts .....	2157	14 03
	Dunn, Taft & Co.....	Dry goods .....	2158	4 65
	Crystal Ice Mfg. Co....	Ice coupon book.....	2159	2 00
	Hager & Graves.....	Groceries .....	2160	47 50
	Alpha Dairy Co.....	Milk tickets .....	2161	3 00
	M. V. Mitchell & Son...	Labor .....	2162	3 20
	Capital City Mach. Wks.	Iron grate .....	2163	6 30
	Flint & Walling Mfg. Co.	Figure 434A .....	2164	4 25
	The A. H. Andrews Co..	Hyloplate .....	2165	21 13
	Vogelgesang Fur. Co...	Furnace repairs .....	2166	3 50
	The W. M. Taylor M.			
	& Grate Co.....	Mantel and trim.....	2167	17 50
	The B. F. Goodrich Co.	Rubber mat. ....	2168	5 05
	Wm. Bebb .....	Painting .....	2169	5 95

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Feb. 15	W. F. Worcester.....	Stove grates.....	2170	\$1 20
	Jacob Good .....	Carpentry .....	2171	69 35
	Einer & Amend.....	Chemicals .....	2172	10 05
	Emil Greiner .....	Supplies .....	2173	24 09
	Kimball & Matthews....	" .....	2174	1 60
	Quaker City Rubber Co.	Tubing .....	2175	21 60
	Merck & Co.....	Celloidin .....	2176	2 04
	H. Troemner.....	Weights, etc.....	2177	12 26
	Denver Fire Clay Co...	Supplies .....	2178	228 85
	Kauffman-Lattimer Co..	Drugs and sundries....	2179	43 72
	C. L. Vogel.....	Labor and material....	2180	15 00
	A. G. Spaulding & Bro.	Lockers .....	2181	375 00
	Wm. Burdell, Jr.....	Repairs .....	2182	3 25
	E. G. Saltmann.....	Blue print frames....	2183	7 00
	Gustav Bruder .....	Band instruction .....	2184	42 00
24	Thomas F. Hunt.....	Salary Feb. 1900.....	2185	250 00
	Wm. D. Gibbs.....	" .....	2186	160 00
	John W. Decker.....	" .....	2187	140 00
	Frank Ruhlén .....	" .....	2188	60 00
	H. A. Weber.....	" .....	2189	225 00
	A. E. Vinson.....	" .....	2190	80 00
	Geo. W. Knight.....	" .....	2191	250 00
	John B. Sanborn.....	" .....	2192	70 00
	A. M. Bleile.....	" .....	2193	225 00
	C. B. Morrey.....	" .....	2194	100 00
	M. Dresbach .....	" .....	2195	30 00
	H. C. Lord.....	" .....	2196	160 00
	W. A. Kellerman.....	" .....	2197	225 00
	J. H. Schaffner.....	" .....	2198	90 00
	C. W. Collett.....	" .....	2199	25 00
	Alice Dufour .....	" .....	2200	25 00
	Fred Luke .....	" .....	2201	50 00
	Wm. McPherson .....	" .....	2202	225 00
	S. A. Norton.....	" .....	2203	120 00
	W. E. Henderson.....	" .....	2204	100 00
	D. A. Kohr.....	" .....	2205	60 00
	H. C. Gore.....	" .....	2206	30 00
	J. F. Jeffrey.....	" .....	2207	10 00
	C. N. Brown.....	" .....	2208	225 00
	C. E. Sherman.....	" .....	2209	110 00
	J. W. Groves.....	" .....	2210	50 00
	Edward Orton, Jr.....	" .....	2211	180 00
	A. V. Bleininger.....	" .....	2212	40 00
	P. G. Bowman.....	" .....	2213	140 00
	C. P. Souther.....	" .....	2214	80 00
	J. N. Bradford.....	" .....	2215	180 00
	T. E. French.....	" .....	2216	110 00
	T. K. Lewis.....	" .....	2217	60 00
	J. H. Vosskuehler.....	" .....	2218	30 00
	Silas Martin .....	" .....	2219	50 00
	F. C. Clark.....	" .....	2220	160 00
	J. P. Gordy.....	" .....	2221	225 00
	Grace Pitts .....	" .....	2222	30 00
	F. C. Caldwell.....	" .....	2223	160 00
	F. A. Fish.....	" .....	2224	60 00
	J. P. Covan.....	" .....	2225	70 00
	A. C. Barrows.....	" .....	2226	225 00
	J. R. Taylor.....	" .....	2227	110 00
	W. H. Siebert.....	" .....	2228	135 00
	J. A. Bownocker.....	" .....	2229	100 00
	Charles Prosser .....	" .....	2230	150 00



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900 Feb. 24	W. C. Mills.....	Salary Feb. 1900.....	2231	\$35 00
	E. A. Eggers.....	" " .....	2232	225 00
	C. W. Mesloh.....	" " .....	2233	110 00
	E. H. Moore.....	" " .....	2234	20 00
	J. R. Smith.....	" " .....	2235	225 00
	A. W. Hodgman.....	" " .....	2236	110 00
	W. R. Lazenby.....	" " .....	2237	225 00
	H. C. Price.....	" " .....	2238	40 00
	F. E. Sanborn.....	" " .....	2239	200 00
	W. A. Knight.....	" " .....	2240	100 00
	C. P. Crowe.....	" " .....	2241	80 00
	W. H. Renck.....	" " .....	2242	85 00
	A. H. McIntyre.....	" " .....	2243	30 00
	S. C. Derby.....	" " .....	2244	225 00
	W. F. Hunter.....	" " .....	2245	250 00
	J. H. Collins.....	" " .....	2246	20 00
	J. A. Shauck.....	" " .....	2247	17 50
	E. B. Kinkead.....	" " .....	2248	120 00
	W. H. Page.....	" " .....	2249	140 00
	E. O. Randall.....	" " .....	2250	70 00
	D. F. Pugh.....	" " .....	2251	95 00
	O. B. Jones.....	" " .....	2252	135 00
	H. N. Townshend.....	" " .....	2253	55 00
	Gertrude Kellicott.....	" " .....	2254	55 00
	Maude Jeffrey.....	" " .....	2255	55 00
	Lucy Allen.....	" " .....	2256	55 00
	C. B. Guittard.....	" " .....	2257	55 00
	R. D. Bohannon.....	" " .....	2258	225 00
	G. W. McCoard.....	" " .....	2259	160 00
	C. L. Arnold.....	" " .....	2260	100 00
	K. D. Swartzel.....	" " .....	2261	100 00
	Emma L. Ball.....	" " .....	2262	30 00
	J. W. Young.....	" " .....	2263	30 00
	C. L. E. Moore.....	" " .....	2264	10 00
	W. T. Magruder.....	" " .....	2265	225 00
	E. A. Hitchcock.....	" " .....	2266	150 00
	F. J. Hale.....	" " .....	2267	30 00
	C. A. Grate.....	" " .....	2268	30 00
	A. F. Hall.....	" " .....	2269	60 00
	F. A. Ray.....	" " .....	2270	20 00
	N. W. Lord.....	" " .....	2271	200 00
	E. E. Somermeier.....	" " .....	2272	70 00
	G. B. Kauffman.....	" " .....	2273	200 00
	W. A. Landacre.....	" " .....	2274	70 00
	E. E. Harrold.....	" " .....	2275	90 00
	N. P. Oglesby.....	" " .....	2276	40 00
	W. H. Scott.....	" " .....	2277	225 00
	F. M. Hamilton.....	" " .....	2278	80 00
	C. P. Linhart.....	" " .....	2279	160 00
	S. E. Canfield.....	" " .....	2280	75 00
	D. C. Huddleson.....	" " .....	2281	50 00
	B. F. Thomas.....	" " .....	2282	225 00
	J. E. Boyd.....	" " .....	2283	120 00
	F. E. Kester.....	" " .....	2284	80 00
	H. W. Brown.....	" " .....	2285	25 00
	J. V. Denney.....	" " .....	2286	225 00
	W. L. Graves.....	" " .....	2287	100 00
	G. H. McKnight.....	" " .....	2288	90 00
	H. C. Allen.....	" " .....	2289	115 00
	J. B. Parker.....	" " .....	2290	30 00
	B. L. Bowen.....	" " .....	2291	225 00

## STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Feb. 24	C. A. Bruce.....	Salary Feb. 1900.....	2292	\$100 00
	C. F. Dowd.....	" " .....	2293	20 00
	D. S. White.....	" " .....	2294	160 00
	W. F. Lavery.....	" " .....	2295	70 00
	C. B. Frederick.....	" " .....	2296	70 00
	O. V. Brumley.....	" " .....	2297	50 00
	H. M. Osborn.....	" " .....	2298	225 00
	Jas. S. Hine.....	" " .....	2299	85 00
	F. L. Landacre.....	" " .....	2300	85 00
	W. O. Thompson.....	" " .....	2301	416 67
	Alexis Cope.....	" " .....	2302	187 50
	Carl E. Steeb.....	" " .....	2303	60 00
	E. D. Cockins.....	" " .....	2304	58 33
	K. D. Duncan.....	" " .....	2305	54 17
	E. R. Hubler.....	" " .....	2306	33 33
	W. C. McCracken.....	" " .....	2307	150 00
	C. M. Low.....	" " .....	2308	54 17
	Wm. Standley.....	" " .....	2309	50 00
	Benj. LeBay.....	" " .....	2310	50 00
	Thos. Boude.....	" " .....	2311	45 00
	Wm. H. Case.....	" " .....	2312	45 00
	Marion Peck.....	" " .....	2313	40 00
	Geo. R. Rose.....	" " .....	2314	65 00
	Jos. Garrettson.....	" " .....	2315	37 39
	Benj. Irwin.....	" " .....	2316	45 00
	J. C. Perry.....	" " .....	2317	12 50
	G. A. Goodspeed.....	" " .....	2318	40 00
	R. E. McIntosh.....	" " .....	2319	12 50
	D. D. Geren.....	" " .....	2320	40 00
	T. E. Osborn.....	" " .....	2321	40 00
	J. H. Brown.....	" " .....	2322	40 00
	Wm. Whitestine.....	" " .....	2323	40 00
	G. C. Denny.....	" " .....	2324	40 00
	E. G. Bailey.....	" " .....	2325	15 00
	M. N. Cook.....	" " .....	2326	40 00
	W. Conklin.....	" " .....	2327	40 00
	H. Chantler.....	" " .....	2328	40 00
	A. Chantler.....	" " .....	2329	45 00
	Earl Conway.....	" " .....	2330	20 00
	James Kelly.....	" " .....	2331	25 00
	W. C. Weir.....	" " .....	2332	20 00
	Elisha Smith.....	" " .....	2333	33 33
	D. A. Crowner.....	" " .....	2334	33 33
	C. H. Woodruff.....	" " .....	2335	65 00
	W. Townsel.....	" " .....	2336	25 00
	Wm. Cannan.....	" " .....	2337	20 00
	W. E. Mann.....	" " .....	2338	25 00
	A. G. McCall.....	" " .....	2339	27 00
19	Ohio National Bank....	Foreign money order...	2340	3 40
	Ohio National Bank....	" " .....	2341	106 55
20	Lily Weeks.....	Services.....	2342	5 00
21	Ohio National Bank....	Foreign money order...	2343	7 25
	A. McLaughlin.....	Clerical work.....	2344	2 55
26	M. J. Kellenberger.....	Services.....	2345	25 00
	Lily Weeks.....	Janitress.....	2346	4 00
March 1	A. J. Loyne.....	Return of fees.....	2347	30 00
5	Lily Weeks.....	Janitress.....	2348	5 00
7	Murray City Coal Co....	Coal.....	2349	932 79
6	Thos. J. Godfrey.....	Trustee expenses.....	2350	10 25
7	Engelke & Bigelow.....	Freight and drayage....	2351	22 99
	Tracy-Wells Co.....	Supplies.....	2352	13 77

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Mar. 7	Kauffman-Lattimer Co.	Drugs and sundries.....	2353	\$125 10
	Schoedinger, Frn & Co.	Shears and nails.....	2354	2 75
	Payne McD. Hdw. Co.	Hardware .....	2355	9 95
	Erner & Hopkins.....	" .....	2356	25 40
	Cent. O. Paper Co.....	Paper .....	2357	22 41
	James P. Carlisle.....	Sand, cement, etc.....	2358	8 90
	Tallmadge Hdw. Co.....	Hardware .....	2359	23 04
	Columbus Supply Co...	Supplies .....	2360	15 90
	Blackwood, Green & Co.	Metal and labor.....	2361	11 72
	Robert A. McClure.....	Table frames, etc.....	2362	206 02
	Amer. Dist. Tel. Co....	Messenger, etc.....	2363	1 25
	W. S. Orvis.....	Paper and ink.....	2364	1 40
	H. Braun Sons & Co....	Instruments .....	2365	7 75
	Columbus Bolt Works..	Bolts .....	2366	80
	J. S. Abbott & Co.....	Hardware .....	2367	4 15
	Hall-Collins Hdw. Co...	Files and sandpaper....	2368	6 63
	Elec. Sup. & Const. Co.	Electrical supplies ....	2369	13 28
	Miller Fur. Co.....	Special box .....	2370	15 00
	Champlin Printing Co..	Printing .....	2371	35 50
	Spahr & Glenn.....	" .....	2372	7 25
	Standard Oil Co.....	Oil .....	2373	34 73
	Col. M. & M. Sup. Co..	Supplies .....	2374	41 40
	Domestic Laundry ....	Laundry work .....	2375	21 83
	Capital City Mach. Co..	Iron and castings.....	2376	27 78
	J. S. Maclean.....	Rifle molds .....	2377	93 75
	E. C. Karshner.....	Postal guide .....	2378	2 50
	Hann & Adair.....	P. O. cards .....	2379	2 75
	Western Union Tel. Co.	Telegrams .....	2380	4 89
	Nitschke Bros .....	Printing .....	2381	9 40
	Col. Transfer Co.....	Carriage service .....	2382	5 00
	J. F. Ridenour.....	Half dozen files.....	2383	1 25
	Eaton Mach. Works....	Lock and hasps .....	2384	15 18
	Central Union Tel. Co..	Rent and tolls .....	2385	12 96
	Wm. Taylor M. & G. Co.	Mantel cabinets .....	2386	75 00
	Batterson Dec. House..	Papering .....	2387	8 20
	McAllister, Moh. & Co.	Desk .....	2388	18 00
	Fish Press Brick Co....	Brick .....	2389	13 00
	New Col. Bridge Co....	Plate and drayage.....	2390	3 06
	Cherington P. & E. Co..	Stamps .....	2391	1 55
	P. C. Cull.....	Mason work .....	2392	6 75
	Kimball & Matthews...	One dozen plates.....	2393	56
	Hart & Crouse.....	Shaker bar and labor...	2394	2 06
	J. & G. Butler.....	Soap and candles.....	2395	24 82
	L. A. Harsh & Co.....	Springs and wringer....	2396	1 50
	Wassall F. C. Co.....	Cement .....	2397	5 70
	Ruggles-Gale Co .....	Record .....	2398	1 25
	J. J. Smith & Co.....	Stamp and pad.....	2399	1 35
	Col. Pharmacal Co.....	Rubber tubing .....	2400	15
	Jeffrey Mfg. Co.....	Chain .....	2401	8 00
	J. M. & W. Westwater..	Wire shades, etc.....	2402	3 40
	Lewis Fink .....	Picture rail .....	2403	2 60
	Lawrence Press Co....	Labels .....	2404	3 00
	Seraphim Blank B. Co..	Binding .....	2405	145 15
	Col. Gas Co.....	February gas .....	2406	161 75
	J. A. Beer.....	Laboratory work .....	2407	2 10
	W. H. Waters.....	Labor .....	2408	42 00
	Forest Spencer .....	Wheeling coal .....	2409	9 00
	F. W. Arnold.....	Student assistance .....	2410	4 94
	O. I. Dick.....	Labor .....	2411	8 50
	M. C. Hunter.....	" .....	2412	9 00
	J. G. Sterling.....	" .....	2413	4 25

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Mar. 7	B. B. Wells.....	Labor .....	2414	\$8 88
	Melvin Dresbach .....	Dept. supplies .....	2415	5 75
	Spahr & Glenn.....	Envelopes .....	2416	2 25
	J. W. Shaw.....	Work in library .....	2417	8 95
	Mabel Huddleson.....	Labor .....	2418	10 00
	S. N. Young.....	Work .....	2419	9 10
	Mason Snow .....	Labor in library.....	2420	8 95
	Roy Thompson .....	Guide .....	2421	5 00
	F. C. McKinney.....	" .....	2422	3 63
	F. C. Long.....	" .....	2423	6 25
	Helen Powell .....	Clerical services .....	2424	3 15
	K. H. Duncan.....	Street car tickets.....	2425	5 00
	Grace Eagleson .....	Clerical services .....	2426	4 47
	E. L. Orndorf.....	Guide .....	2427	5 38
	Andrew Spittal .....	Labor .....	2428	21 21
	W. L. Redrow .....	" .....	2429	17 70
	R. W. Funk.....	Work in store room....	2430	16 42
	Phil. Long .....	Luncheon .....	2431	7 50
	E. G. Bailey.....	Labor .....	2432	6 10
	T. A. Panter.....	Masonry .....	2433	2 10
	Metta Seymour .....	Clerical work .....	2434	6 00
	Edith Seymour .....	Piano playing .....	2435	3 00
	Helen Potts .....	" .....	2436	6 25
	H. C. Price.....	Photographs .....	2437	2 75
	Richard Spencer .....	Wheeling coal .....	2438	42 00
	C. L. Sackett.....	Lantern, extra copies....	2439	8 00
	H. J. Hammond.....	Hospital supplies .....	2440	3 00
	J. Stainbrook.....	Work in boiler house....	2441	9 00
	Wilbert Morelan .....	Carpentry .....	2442	14 25
	J. H. Randall.....	" .....	2443	34 50
	E. J. Barton.....	" .....	2444	13 75
	A. F. Wilcox.....	" .....	2445	16 38
	H. O. Carrington.....	Lantern .....	2446	26 67
	A. H. Barber Mfg. Co..	Castings .....	2447	9 00
	Chic. Blue Pr. Paper Co.	Blueprint paper .....	2448	4 80
	Baker & Adamson C. Co.	Chemicals, etc. ....	2449	36 65
	Eimer & Amend.....	" .....	2450	13 40
	Emil Greiner .....	Apparatus .....	2451	29 53
	Chic. Laboratory S. Co.	Supplies .....	2452	14 18
	Akron Chemical Co....	Bisque ware .....	2453	2 00
	Amer. Aristotype Co..	Paper .....	2454	9 75
	Bausch & Lomb Opt. Co.	Apparatus .....	2455	7 35
	Open Court Pub. Co....	Portraits .....	2456	12 00
	Elec. Appliance Co....	Conduit and clips.....	2457	6 08
	Babcock & Wilcox Co..	Worm and wheel.....	2458	18 65
	M. P. Streett.....	Masonry and material..	2459	22 00
	M. R. Shellenberger...	Advertisement .....	2460	1 50
	Jas. McCrea & Co.....	Steam clamp .....	2461	9 75
	Fairbanks, Morse & Co.	Standard sand .....	2462	10 50
	Riehle Bros. & Co.....	Molds and sieve .....	2463	47 50
	W. H. Anderson & Co..	Reports .....	2464	15 00
	C. Scribner's Sons.....	Commercial Cuba .....	2465	3 27
	R. B. Hough.....	Specimen pages .....	2466	9 76
	H. O. Carrington.....	Normal lantern .....	2467	26 67
	D'Este & Seely Co.....	Trap .....	2468	4 00
	M. P. Streett.....	Material and labor.....	2469	4 00
	Henry Barnard .....	Journal of Education...	2470	120 00
	Burrows Bros. & Co....	Books .....	2471	94 26
	Boston Test. Lab.....	Subscription .....	2472	3 00
	Am. Inst. Elec. Engrs..	Reports .....	2473	6 00
	Boston Book Co.....	Books .....	2474	83 00



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Mar. 7	Robt. I. Fulton.....	Desks .....	2475	\$10 00
	G. E. Stechert.....	Books .....	2476	944 07
	Ohio Nat. Bank.....	Foreign money order...	2477	11 95
	R. M. Rownd, P. M....	Dep. for 2nd class mat.	2478	10 00
	J. N. Bradford.....	Lettering commissions ..	2479	14 25
	Webb Sta. & Ptg. Co..	Office supplies .....	2480	11 00
	Chic. Lab. Sup. & S. Co.	Supplies .....	2481	5 75
	Osborne, Will's. & Horn	Coal .....	2482	59 16
	J. T. Godfrey.....	Trustee expense .....	2483	20 11
	John W. Beech.....	Salary .....	2484	60 00
	Lily Weeks .....	Janitress .....	2485	5 00
	Postal Tel. Cable Co....	Telegrams .....	2486	66
	D. A. Crowner.....	Salary March, 1900....	2487	33 34
	Elisha Smith .....	" " " " .....	2488	33 34
	Lily Weeks .....	Services, March, 1900..	2489	5 00
	T. F. Hunt.....	Salary March, 1900....	2490	250 00
	Wm. D. Gibbs.....	" " " " .....	2491	160 00
	J. W. Decker.....	" " " " .....	2492	140 00
	Frank Ruhlen .....	" " " " .....	2493	60 00
	H. A. Weber.....	" " " " .....	2494	225 00
	A. E. Vinson.....	" " " " .....	2495	80 00
	G. W. Knight.....	" " " " .....	2496	250 00
	John B. Sanborn.....	" " " " .....	2497	70 00
	A. M. Bleile.....	" " " " .....	2498	225 00
	C. B. Morrey.....	" " " " .....	2499	100 00
	M. Dresbach .....	" " " " .....	2500	30 00
	H. C. Lord.....	" " " " .....	2501	160 00
	W. A. Kellerman.....	" " " " .....	2502	225 00
	J. H. Schaffner.....	" " " " .....	2503	100 00
	S. W. Collett.....	" " " " .....	2504	25 00
	Alice Dufour .....	" " " " .....	2505	25 00
	F. K. Luke.....	" " " " .....	2506	50 00
31	Wm. McPherson .....	" " " " .....	2507	225 00
	S. A. Norton.....	" " " " .....	2508	120 00
	W. E. Henderson.....	" " " " .....	2509	100 00
	D. A. Kohr.....	" " " " .....	2510	60 00
	H. C. Gore.....	" " " " .....	2511	30 00
	J. F. Jeffrey.....	" " " " .....	2512	10 00
	C. N. Brown.....	" " " " .....	2513	225 00
	C. E. Sherman.....	" " " " .....	2514	110 00
	J. W. Groves.....	" " " " .....	2515	50 00
	Ed. Orton .....	" " " " .....	2516	180 00
	A. V. Bleininger.....	" " " " .....	2517	40 00
	Wm. Cannan .....	" " " " .....	2518	20 00
	P. G. Bowman.....	" " " " .....	2519	140 00
	C. P. Souther.....	" " " " .....	2520	80 00
	J. N. Bradford.....	" " " " .....	2521	180 00
	T. E. French.....	" " " " .....	2522	110 00
	T. K. Lewis.....	" " " " .....	2523	60 00
	J. H. Vosskuehler.....	" " " " .....	2524	30 00
	Silas Martin .....	" " " " .....	2525	50 00
	F. C. Clark.....	" " " " .....	2526	160 00
	W. E. Mann.....	" " " " .....	2527	25 00
	Grace Pitts .....	" " " " .....	2528	30 00
	J. P. Gordy.....	" " " " .....	2529	225 00
	F. C. Caldwell.....	" " " " .....	2530	160 00
	F. A. Fish.....	" " " " .....	2531	60 00
	J. P. Covan.....	" " " " .....	2532	70 00
	A. C. Barrows.....	" " " " .....	2533	225 00
	J. R. Taylor.....	" " " " .....	2534	110 00
	W. H. Siebert.....	" " " " .....	2535	135 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Mar. 31	J. A. Bownocker.....	Salary March, 1900....	2536	\$100 00
	C. S. Prosser.....	" ".....	2537	150 00
	W. C. Mills.....	" ".....	2538	35 00
	E. A. Eggers.....	" ".....	2539	225 00
	C. W. Mesloh.....	" ".....	2540	110 00
	E. H. Moore.....	" ".....	2541	20 00
	J. R. Smith.....	" ".....	2542	225 00
	A. W. Hodgman.....	" ".....	2543	110 00
	W. R. Lazenby.....	" ".....	2544	225 00
	H. C. Price.....	" ".....	2545	50 00
	F. E. Sanborn.....	" ".....	2546	200 00
	W. A. Knight.....	" ".....	2547	100 00
	C. W. Crowe.....	" ".....	2548	80 00
	W. H. Renck.....	" ".....	2549	85 00
	A. H. McIntire.....	" ".....	2550	30 00
	S. C. Derby.....	" ".....	2551	225 00
	W. F. Hunter.....	" ".....	2552	250 00
	J. H. Collins.....	" ".....	2553	20 00
	J. A. Shauck.....	" ".....	2554	17 50
	E. B. Kinkead.....	" ".....	2555	120 00
	W. H. Page.....	" ".....	2556	140 00
	E. O. Randall.....	" ".....	2557	70 00
	D. F. Pugh.....	" ".....	2558	95 00
	O. B. Jones.....	" ".....	2559	135 00
	H. N. Townshend.....	" ".....	2560	55 00
	Gertrude Kellicott.....	" ".....	2561	55 00
	Maude D. Jeffrey.....	" ".....	2562	55 00
	Lucy Allen.....	" ".....	2563	55 00
	C. B. Guittard.....	" ".....	2564	55 00
	R. D. Bohannon.....	" ".....	2565	225 00
	G. W. McCoard.....	" ".....	2566	160 00
	C. L. Arnold.....	" ".....	2567	100 00
	K. D. Swartzel.....	" ".....	2568	100 00
	E. L. Ball.....	" ".....	2569	30 00
	J. W. Young.....	" ".....	2570	30 00
	C. L. E. Moore.....	" ".....	2571	10 00
	W. T. Magruder.....	" ".....	2572	225 00
	E. A. Hitchcock.....	" ".....	2573	150 00
	F. J. Hale.....	" ".....	2574	30 00
	C. A. Grate.....	" ".....	2575	30 00
	A. F. Hall.....	" ".....	2576	60 00
	F. A. Ray.....	" ".....	2577	200 00
	N. W. Lord.....	" ".....	2578	200 00
	E. E. Somermeier.....	" ".....	2579	70 00
	G. B. Kauffman.....	" ".....	2580	200 00
	W. A. Landacre.....	" ".....	2581	70 00
	E. E. Harrold.....	" ".....	2582	90 00
	N. P. Oglesby.....	" ".....	2583	40 00
	W. H. Scott.....	" ".....	2584	225 00
	F. M. Hamilton.....	" ".....	2585	80 00
	C. P. Linhart.....	" ".....	2586	160 00
	S. E. Canfield.....	" ".....	2587	75 00
	D. C. Huddleson.....	" ".....	2588	50 00
	B. F. Thomas.....	" ".....	2589	225 00
	J. E. Boyd.....	" ".....	2590	120 00
	F. E. Kester.....	" ".....	2591	80 00
	H. W. Brown.....	" ".....	2592	25 00
	J. V. Denney.....	" ".....	2593	225 00
	W. L. Graves.....	" ".....	2594	100 00
	Geo. H. McKnight.....	" ".....	2595	90 00
	H. C. Allen.....	" ".....	2596	115 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Mar. 31	J. B. Parker.....	Salary March, 1900....	2597	\$30 00
	B. L. Bowen.....	" " .....	2598	225 00
	C. A. Bruce.....	" " .....	2599	100 00
	C. F. Dowd.....	" " .....	2600	20 00
	D. S. White.....	" " .....	2601	160 00
	W. F. Lavery.....	" " .....	2602	70 00
	C. B. Frederick.....	" " .....	2603	70 00
	O. V. Brumley.....	" " .....	2604	50 00
	H. M. Osborn.....	" " .....	2605	225 00
	J. S. Hine.....	" " .....	2606	85 00
	F. L. Landacre.....	" " .....	2607	85 00
	W. O. Thompson.....	" " .....	2608	416 67
	Alexis Cope.....	" " .....	2609	187 50
	Carl E. Steeb.....	" " .....	2610	60 00
	E. D. Cockins.....	" " .....	2611	58 33
	E. R. Hubler.....	" " .....	2612	33 33
	K. H. Duncan.....	" " .....	2613	54 17
	W. C. McCracken.....	" " .....	2614	150 00
	C. M. Low.....	" " .....	2615	54 17
	W. A. Standley.....	" " .....	2616	50 00
	Benj. LeBay.....	" " .....	2617	50 00
	T. A. Boude.....	" " .....	2618	45 00
	W. H. Case.....	" " .....	2619	45 00
	Marion Peck.....	" " .....	2620	40 00
	Geo. R. Rose.....	" " .....	2621	65 00
	J. Garrettson.....	" " .....	2622	37 39
	Benj. Irwin.....	" " .....	2623	45 00
	J. C. Perry.....	" " .....	2624	12 50
	G. A. Goodspeed.....	" " .....	2625	40 00
	R. E. McIntosh.....	" " .....	2626	12 50
	D. D. Geren.....	" " .....	2627	40 00
	T. E. Osborn.....	" " .....	2628	40 00
	J. H. Brown.....	" " .....	2629	40 00
	Wm. Whitestone.....	" " .....	2630	40 00
	G. C. Denny.....	" " .....	2631	40 00
	E. G. Bailey.....	" " .....	2632	15 00
	A. G. McCall.....	" " .....	2633	27 00
	M. N. Cook.....	" " .....	2634	40 00
	W. Conklin.....	" " .....	2635	40 00
	H. Chantler.....	" " .....	2636	40 00
	Arthur Chantler.....	" " .....	2637	45 00
	Earl Conway.....	" " .....	2638	20 00
	James Kelly.....	" " .....	2639	25 00
	W. C. Weir.....	" " .....	2640	20 00
	W. Townsel.....	" " .....	2641	25 00
	C. H. Woodruff.....	" " .....	2642	65 00
23	R. M. Cooper.....	Return fees .....	2643	10 00
27	Lily Weeks.....	Salary one week.....	2644	5 00
30	M. J. Kellenberger.....	Services .....	2645	20 00
April 4	O. I. Dick.....	Student labor .....	2646	7 03
	A. F. Wilcox.....	Carpenter work .....	2647	25 25
	F. C. McKinney.....	Guide, etc.....	2648	4 17
	J. H. Randall.....	Carpenter work .....	2649	56 00
	W. Morelan.....	" .....	2650	18 25
	Andrew Spittal.....	Departmental work .....	2651	29 49
	H. C. Price.....	Express and postage....	2652	5 00
	B. B. Wells.....	Student labor .....	2653	6 50
	F. W. Arnold.....	" .....	2654	1 35
	A. H. Lyon.....	" .....	2655	4 05
	T. A. Panter.....	Janitor work .....	2656	6 53
	M. C. Hunter.....	" .....	2657	6 90

## STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
April 4	Hattie Hoffman.....	Work in library.....	2658	\$4 00
	Mason Snow.....	".....	2659	9 95
	Mabel Huddleson.....	".....	2660	10 00
	S. N. Young.....	".....	2661	10 60
	J. W. Shaw.....	".....	2662	10 30
	Gretchen Miller.....	".....	2663	4 50
	West. Union Tel. Co....	Telegrams.....	2664	95
	Grace Young.....	Work in library.....	2665	4 00
	Max Morse.....	History of England....	2666	8 00
	R. R. Harkins.....	Drafting.....	2667	90
	E. G. Bailey.....	Labor.....	2668	9 68
	M. W. Mumma.....	".....	2669	1 25
	E. E. Nobles.....	Drafting.....	2670	11 00
	C. P. Linhart.....	Department supplies ..	2671	3 00
	C. B. Frederick.....	Anatomy horses.....	2672	10 50
	F. R. Kunkle.....	Work in laboratory.....	2673	5 25
	F. C. Clark.....	Department supplies ..	2674	1 88
	Arthur Geren.....	Drawing paper.....	2675	46 85
	E. L. Orndorf.....	Guide.....	2676	4 12
	W. A. Hite.....	".....	2677	5 38
	A. McLaughlin.....	Clerical work.....	2678	1 35
	Helen Powell.....	".....	2679	1 35
	Grace Eagleson.....	".....	2680	2 40
	F. C. Long.....	Guide.....	2681	3 50
	Roy Thompson.....	".....	2682	6 87
	R. M. Starbuck.....	Plumbing charts.....	2683	3 00
	J. R. Smith.....	Expressage.....	2684	1 85
	E. D. West.....	Roman coins.....	2685	2 00
	W. L. Redrow.....	Lab. asst.....	2686	15 35
	C. P. Linville.....	".....	2687	5 00
	C. L. Sackett.....	Adv. in Lantern.....	2688	58 67
	R. W. Funk.....	Work in store room....	2689	22 50
	Jacob Slyh.....	Labor.....	2690	4 50
	Gustav Bruder.....	Band instruction.....	2691	20 00
	J. A. Beer.....	Lab. asst.....	2692	3 10
	J. S. Hine.....	Lab. supplies & expen's	2693	14 85
	J. C. Perry.....	Campus work.....	2694	3 90
	Warren Severn.....	".....	2695	2 80
	J. N. Bradford.....	Drawing materials.....	2696	1 50
	R. E. McIntosh.....	Wiring, etc.....	2697	3 25
	H. B. Kinnear.....	Wiring.....	2698	12 15
	Richard Spencer.....	Wheeling coal.....	2699	42 00
	W. H. Watters.....	".....	2700	36 00
	C. H. Woodruff.....	Muslin and hooks.....	2701	86
	Standard Oil Co.....	Oil and gasoline.....	2702	54 76
	Erner & Hopkins.....	Electrical supplies.....	2703	14 31
	Spahr & Glenn.....	Printing.....	2704	32 00
	J. S. Abbott & Co.....	Hardware.....	2705	3 55
	Hann & Adair.....	Printing.....	2706	9 50
	Kauffman, Lattimer Co..	Drugs and sundries....	2707	132 56
	J. S. Maclean.....	Case, brackets, etc....	2708	20 50
	Tallmadge Hdw. Co....	Hardware.....	2709	54 03
	Schoedinger, F'r'n & Co.	".....	2710	30 23
	Kelton & Converse....	Lumber.....	2711	67 97
	Col. Mill & Mine S. Co.	Waste and lamps.....	2718	28 33
	Harper Illustrating Co.	Half tone work.....	2713	11 85
	Domestic Laundry.....	Towel service.....	2714	23 72
	Penna. Fuel Co.....	Coal.....	2715	21 50
	Champlin Printing Co..	Printing.....	2716	234 55
	Franklin Toil. Sup. Co.	Towel service.....	2717	4 80
	E. Doddington & Co....	Lumber, etc.....	2718	51 00



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
April 4	Col. Supply Co.....	Supplies .....	2719	\$27 57
	R. A. McClure.....	Lumber .....	2720	87 95
	Bucher Eng. Co.....	Half tone, etc.....	2721	22 78
	L. B. Wing.....	Trustee expenses .....	2722	13 50
	J. W. Beach.....	Salary for March.....	2723	60 00
	Wm. Cannan .....	Store room supplies....	2724	15 50
	Murray City Coal Co..	Coal .....	2725	722 00
	Nitschke Bros .....	Printing .....	2726	9 60
	Kimball & Mathews....	Supplies .....	2727	1 00
	Cap. City Mchn. Wks..	Steel rods, etc.....	2728	9 26
	J. M. & W. Westwater..	Chandeliers, etc.....	2729	109 25
	Payne-McD. Hdw. Co..	Hardware .....	2730	13 40
	McClelland & Co.....	Supplies .....	2731	3 98
	E. E. Corwin.....	Claim of Col. Seed Co..	2732	43 75
	Jeffrey Mfg. Co.....	Red rope ins. paper....	2733	3 50
	Walter L. Lillie & Co..	Merchandise and frames	2734	4 00
	Logan McCormick.....	Frames .....	2735	6 00
	The H. Cole Co.....	Thumb tacks .....	2736	3 00
	Seraphim B. B. Co.....	Binding .....	2737	58 05
	H. H. Walling.....	Painting and scraping..	2738	18 15
	Eldridge & Higgins Co.	Jars .....	2739	5 25
	Moonstone Copy. Sl. Co.	Filling and ink.....	2740	1 45
	P. Hayden S. & Hd. Co.	Cube castings .....	2741	6 79
	Col. Gas Co.....	Coke .....	2742	6 65
	James P. Carlisle.....	Plaster and cement.....	2743	5 10
	H. W. Johns Mfg. Co..	One gallon No. 56 paint.	2744	1 50
	Burgess Sold. Furn. Co.	Repairing .....	2745	3 30
	Palmer & Beck.....	Tin .....	2746	3 00
	H. Braun Sons & Co...	Plumbago .....	2747	80
	Lynas Bros .....	Candles .....	2748	2 70
	Eaton Machine Works..	Iron pieces, etc.....	2749	4 81
	Lewis Fink .....	Picture rail .....	2750	1 80
	Andrew Dobbie .....	Cotton .....	2751	2 40
	D. H. Derflinger.....	Gasoline .....	2752	7 00
	Z. L. White & Co.....	Dry goods .....	2753	3 48
	Dunn, Taft & Co.....	Muslin, etc.....	2754	1 36
	Scioto Boiler Works....	Boiler tube, etc.....	2755	7 00
	Eimer & Amend.....	Chemicals, etc.....	2756	28 60
	Amer. Dist. Tel. Co....	Box rent .....	2757	26 00
	Webb Sta. & Ptg. Co...	Office supplies .....	2758	22 00
	Burrows Bros. Co.....	Books .....	2759	91 84
	G. E. Stechert.....	" .....	2760	234 04
	Henry Troemner .....	Riders .....	2761	1 92
	Baker & Adamson Co...	Chemicals .....	2762	14 84
	J. Carbutt .....	Plates .....	2763	124 24
	Chic. Lab. Sup. & S. Co.	Apparatus .....	2764	32 40
	E. H. Sargent & Co....	Machine lead, etc.....	2765	51 00
	W. W. Whiton.....	Eight bush. potatoes...	2766	8 00
	U. S. Elec. Supply Co...	Telegraph receiver....	2767	26 00
	Gregory Elec. Co.....	Water meter .....	2768	15 15
	Nicholson File Co.....	Files .....	2769	22 73
	The Strelinger Co.....	Hutler dado head.....	2770	10 80
	G. H. Kearney.....	Journals .....	2771	62 50
	The Boston Book Co....	Books .....	2772	103 00
	Boston Book Bind. Co..	Binder .....	2773	1 15
	H. H. Ballard.....	Klips .....	2774	3 12
	T. C. Trueblood.....	N. A. E. reports.....	2775	2 00
	Torrey Bot. Club.....	Memoirs, Vol. 6 and 7..	2776	6 00
	E. L. Field.....	Cards .....	2777	20 70
	R. R. Bowker.....	Catalogues .....	2778	5 00
	E. M. Knowles.....	Stilts and pins.....	2779	75

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
April 4	W. & L. E. Gurley....	Sketching case.....	2780	\$38 00
	Edward Thompson Co..	Encyclopedia .....	2781	6 00
	W. H. Anderson & Co..	Reports, law .....	2782	7 00
	W. H. Johns Mfg. Co..	Half gallon paint.....	2783	1 50
	The Gunton Co.....	Magazine, etc.....	2784	11 20
	J. R. Palmenberg's Sons.	Display fixtures, etc....	2785	18 60
	Rand, McNally & Co..	Keeps Ancient Greece...	2786	8 80
	P. P. Caproni & Bro...	Busts .....	2787	11 05
	C. H. Evans & Co.....	Advertisement .....	2788	5 00
	W. J. Holland.....	Butterfly book .....	2789	3 00
	A. E. Adair.....	Mason work .....	2790	4 05
	Lily Weeks .....	Janitress .....	2791	5 00
	H. J. McTeague.....	Estimate, etc .....	2792	520 25
	Col. Gas Co.....	March gas .....	2793	160 20
	Eimer & Amend.....	Hydrometer, etc.....	2794	6 31
16	Adams-Bagnall Elec. Co.	Outer globes .....	2795	6 00
	F. H. McAllister.....	Plain sildes .....	2796	5 20
	Herman Haerlein .....	Services .....	2797	29 20
	Col. Water Works.....	Water rents .....	2798	797 11
	Bucher Eng. Co.....	Half tone work.....	2799	3 00
	J. S. Abbott & Co.....	Locks and bolts .....	2800	2 42
	Lily Weeks .....	Janitress work .....	2801	5 00
	R. M. Rownd, P. M....	400 4c stamps .....	2802	16 00
	R. M. Rownd, P. M....	Postage stamps .....	2803	19 50
28	Thos. F. Hunt.....	Salary, April, 1900....	2804	250 00
	W. D. Gibbs.....	" " .....	2805	160 00
	J. W. Decker.....	" " .....	2806	140 00
	Frank Ruhlen .....	" " .....	2807	60 00
	H. A. Weber.....	" " .....	2808	225 00
	A. E. Vinson.....	" " .....	2809	80 00
	G. W. Knight.....	" " .....	2810	250 00
	J. B. Sanborn.....	" " .....	2811	70 00
	A. M. Bleile.....	" " .....	2812	225 00
	C. B. Morrey.....	" " .....	2813	100 00
	M. Dresbach .....	" " .....	2814	30 00
	H. C. Lord.....	" " .....	2815	160 00
	W. A. Kellerman.....	" " .....	2816	225 00
	J. H. Schaffner.....	" " .....	2817	100 00
	S. W. Collett.....	" " .....	2818	25 00
	Alice Dufour .....	" " .....	2819	25 00
	F. K. Luke.....	" " .....	2820	50 00
	Wm. McPherson .....	" " .....	2821	225 00
	S. A. Norton.....	" " .....	2822	120 00
	W. E. Henderson.....	" " .....	2823	100 00
	D. A. Kohr.....	" " .....	2824	60 00
	H. C. Gore.....	" " .....	2825	30 00
	J. F. Jeffrey.....	" " .....	2826	10 00
	C. N. Brown.....	" " .....	2827	225 00
	C. E. Sherman.....	" " .....	2828	110 00
June 16	F. K. Luke.....	Salary, June, 1900....	2829	50 00
April 28	Edward Orton, Jr.....	Salary, April, 1900....	2830	180 00
	A. V. Bleiningner.....	" " .....	2831	40 00
	Perla G. Bowman.....	" " .....	2832	140 00
	C. P. Souther.....	" " .....	2833	80 00
	J. N. Bradford.....	" " .....	2834	180 00
	T. E. French.....	" " .....	2835	110 00
	T. K. Lewis.....	" " .....	2836	60 00
	J. H. Vosskuehler.....	" " .....	2837	30 00
	Silas Martin .....	" " .....	2838	50 00
	F. C. Clark.....	" " .....	2839	160 00
	Grace Pitts.....	" " .....	2840	30 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
April 28	J. P. Gordy.....	Salary, April, 1900....	2841	\$225 00
	F. C. Caldwell.....	" " " " " "	2842	160 00
	F. A. Fish.....	" " " " " "	2843	60 00
	J. P. Covan.....	" " " " " "	2844	70 00
	A. C. Barrows.....	" " " " " "	2845	225 00
	J. R. Taylor.....	" " " " " "	2846	110 00
	W. H. Siebert.....	" " " " " "	2847	135 00
	J. A. Bownocker.....	" " " " " "	2848	100 00
	C. S. Prosser.....	" " " " " "	2849	150 00
	W. C. Mills.....	" " " " " "	2850	35 00
	E. A. Eggers.....	" " " " " "	2851	225 00
	C. W. Mesloh.....	" " " " " "	2852	110 00
	E. H. Moore.....	" " " " " "	2853	20 00
	J. R. Smith.....	" " " " " "	2854	225 00
	A. W. Hodgman.....	" " " " " "	2855	110 00
	W. R. Lazenby.....	" " " " " "	2856	225 00
	H. C. Price.....	" " " " " "	2857	50 00
	F. E. Sanborn.....	" " " " " "	2858	200 00
	W. A. Knight.....	" " " " " "	2859	100 00
	C. P. Crowe.....	" " " " " "	2860	80 00
	W. H. Renck.....	" " " " " "	2861	85 00
	A. H. McIntire.....	" " " " " "	2862	30 00
	S. C. Derby.....	" " " " " "	2863	225 00
	J. W. Beach.....	" " " " " "	2864	60 00
	W. F. Hunter.....	" " " " " "	2865	250 00
	J. H. Collins.....	" " " " " "	2866	20 00
	J. A. Shauck.....	" " " " " "	2867	17 50
	E. B. Kinkead.....	" " " " " "	2868	120 00
	W. H. Page.....	" " " " " "	2869	140 00
	E. O. Randall.....	" " " " " "	2870	70 00
	D. F. Pugh.....	" " " " " "	2871	95 00
	O. B. Jones.....	" " " " " "	2872	135 00
	H. N. Townshend.....	" " " " " "	2873	55 00
	Gertrude Kellicott.....	" " " " " "	2874	55 00
	Maude Jeffrey.....	" " " " " "	2875	55 00
	Lucy Allen.....	" " " " " "	2876	55 00
	C. B. Guittard.....	" " " " " "	2877	55 00
	R. D. Bohannon.....	" " " " " "	2878	225 00
	G. W. McCoard.....	" " " " " "	2879	160 00
	C. L. Arnold.....	" " " " " "	2880	100 00
	K. D. Swartzel.....	" " " " " "	2881	100 00
	E. L. Ball.....	" " " " " "	2882	30 00
	J. W. Young.....	" " " " " "	2883	30 00
	C. L. E. Moore.....	" " " " " "	2884	10 00
	W. T. Magruder.....	" " " " " "	2885	225 00
	E. A. Hitchcock.....	" " " " " "	2886	150 00
	F. J. Hale.....	" " " " " "	2887	30 00
	C. A. Grate.....	" " " " " "	2888	30 00
	A. F. Hall.....	" " " " " "	2889	60 00
	F. A. Ray.....	" " " " " "	2890	200 00
	N. W. Lord.....	" " " " " "	2891	200 00
	E. E. Somermeier.....	" " " " " "	2892	70 00
	G. B. Kauffman.....	" " " " " "	2893	200 00
	W. A. Landacre.....	" " " " " "	2894	70 00
	E. E. Harrold.....	" " " " " "	2895	90 00
	N. P. Oglesby.....	" " " " " "	2896	40 00
	W. H. Scott.....	" " " " " "	2897	225 00
	F. M. Hamilton.....	" " " " " "	2898	80 00
	C. P. Linhart.....	" " " " " "	2899	160 00
	S. E. Canfield.....	" " " " " "	2900	75 00
	D. C. Huddleson.....	" " " " " "	2901	50 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
April 28	B. F. Thomas.....	Salary, April, 1900....	2902	\$225 00
	J. E. Boyd.....	" " " " " "	2903	120 00
	F. E. Kester.....	" " " " " "	2904	80 00
	H. W. Brown.....	" " " " " "	2905	25 00
	J. V. Denny.....	" " " " " "	2906	225 00
	W. L. Graves.....	" " " " " "	2907	100 00
	G. H. McKnight.....	" " " " " "	2908	90 00
	H. C. Allen.....	" " " " " "	2909	115 00
	J. B. Parker.....	" " " " " "	2910	30 00
	B. L. Bowen.....	" " " " " "	2911	225 00
	C. A. Bruce.....	" " " " " "	2912	100 00
	C. F. Dowd.....	" " " " " "	2913	20 00
	D. S. White.....	" " " " " "	2914	160 00
	W. F. Lavery.....	" " " " " "	2915	70 00
	C. B. Frederick.....	" " " " " "	2916	70 00
	O. V. Brumley.....	" " " " " "	2917	50 00
	Herbert Osborn.....	" " " " " "	2918	225 00
	J. S. Hine.....	" " " " " "	2919	85 00
	F. L. Landacre.....	" " " " " "	2920	85 00
	W. O. Thompson.....	" " " " " "	2921	416 67
	Alexis Cope.....	" " " " " "	2922	187 50
	Carl E. Steeb.....	" " " " " "	2923	60 00
	E. D. Cockins.....	" " " " " "	2924	58 33
	E. R. Hubler.....	" " " " " "	2925	33 33
	K. H. Duncan.....	" " " " " "	2926	54 17
	W. C. McCracken.....	" " " " " "	2927	150 00
	C. W. Low.....	" " " " " "	2928	54 17
	W. A. Standley.....	" " " " " "	2929	50 00
	B. LeBay.....	" " " " " "	2930	50 00
	T. Boude.....	" " " " " "	2931	45 00
	W. H. Case.....	" " " " " "	2932	45 00
	Marion Peck.....	" " " " " "	2933	40 00
	G. R. Rose.....	" " " " " "	2934	65 00
	Jos. Garrettson.....	" " " " " "	2935	37 39
	B. Irwin.....	" " " " " "	2936	45 00
	J. C. Perry.....	" " " " " "	2937	12 50
	G. A. Goodspeed.....	" " " " " "	2938	40 00
	R. E. McIntosh.....	" " " " " "	2939	12 50
	D. D. Geren.....	" " " " " "	2940	40 00
	T. E. Osborn.....	" " " " " "	2941	40 00
	Wm. Whitestine.....	" " " " " "	2942	40 00
	G. C. Denney.....	" " " " " "	2943	40 00
	E. G. Bailey.....	" " " " " "	2944	15 00
	A. G. McCall.....	" " " " " "	2945	27 00
	M. N. Cook.....	" " " " " "	2946	40 00
	W. Conklin.....	" " " " " "	2947	40 00
	H. Chantler.....	" " " " " "	2948	40 00
	A. Chantler.....	" " " " " "	2949	45 00
	Earl Conway.....	" " " " " "	2950	20 00
	J. Kelley.....	" " " " " "	2951	25 00
	W. C. Weir.....	" " " " " "	2952	20 00
	W. Townsel.....	" " " " " "	2953	25 00
	J. H. Brown.....	" " " " " "	2954	15 00
	J. H. Brown.....	" " " " " "	2955	25 00
June 16	W. C. Weir.....	Salary June 1900.....	2956	20 00
April 28	W. E. Mann.....	Salary, April, 1900....	2957	25 00
	C. H. Woodruff.....	" " " " " "	2958	65 00
20	A. Douglas, Admr.....	Settlement Kendrick case	2959	4,000 00
	N. W. Evans.....	Settlement Evans case..	2960	753 04
	C. F. Galloway, clerk...	Costs in Evans case.....	2961	246 96
23	Lily Weeks.....	Salary.....	2962	5 00



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
April 23	Nitschke Bros.....	Letter heads.....	2963	\$3 00
26	R. M. Rownd.....	Stamps .....	2964	16 00
27	Mrs. M. J. Kellenberger	Salary .....	2965	25 00
May 1	Lily Weeks .....	Janitress .....	2966	5 00
	L. B. Wing.....	Expense as trustee.....	2967	6 00
	R. M. Rownd.....	Postage deposit .....	2968	10 00
4	Chicago Lab. S. S. Co.	Instruments and supplies	2969	215 55
2	L. C. Ferrell.....	Public documents .....	2970	240 00
3	Bausch & Lomb Co.....	Condenser .....	2971	1 09
	Crosby Steam Gauge Co.	Valve and springs.....	2972	8 58
	Eimer & Amend.....	Chemicals .....	2973	9 23
	G. E. Stechert.....	Books .....	2974	78 61
	Maher & Grosh Cut. Co.	Cutlery .....	2975	6 46
	Emil Greiner .....	Apparatus and tubes....	2976	15 20
	E. H. Sargent & Co....	Supplies .....	2977	32 85
	J. Carbutt .....	Photo supplies.....	2978	1 48
	Gen. Electric Co.....	Electrical appliances ...	2979	10 10
	Albaugh Nursery Co....	Trees .....	2980	19 00
	Open Court Pub. Co....	Portraits, etc.....	2981	12 00
	G. B. Carpenter Co....	Tents .....	2982	211 99
	Boston Book Co.....	Books .....	2983	97 31
	W. H. Anderson & Co..	Digests .....	2984	189 75
	Am. Inst. Elec. Eng....	Subscription .....	2985	5 00
	Am. Pharm. Assn.....	Proceedings vol. 47.....	2986	5 50
	Am. Jour. of Physiology	Volume 15 .....	2987	5 00
	Library Bureau .....	Library supplies .....	2988	16 57
	N. Y. Botanical Garden.	Journals, etc.....	2989	5 25
	H. E. Hooper.....	Century atlas.....	2990	11 50
	Burrows Bros. Co.....	Books .....	2991	184 67
	E. A. Kinsey Co.....	Slide .....	2992	3 00
	Thomas Mehan & Sons.	Trees .....	2993	109 95
	DeLaval Sep. Co.....	Points and belts.....	2994	4 50
	Creamery Package Co..	Dairy supplies .....	2995	45 87
	Cornish, Curtis & G. Co.	Cheese molds .....	2996	5 00
	Wellington Box Co....	Boxes .....	2997	4 00
	D. H. Burrell & Co....	Nut for Hood gang pr'ss	2998	2 00
	Keuffel & Esser Co....	Mining target .....	2999	72 00
	Wm. Gartner & Co....	Spherometer, etc.....	3000	22 00
	Queen & Co.....	Bridge and tubes.....	3001	124 05
	Babcock & Wilcox Co..	Boiler tubes .....	3002	34 10
	D. C. Heath & Co.....	Books .....	3003	1 34
	J. G. Biddle.....	Instruments .....	3004	25 58
	Fidelity Int. Agency....	Miner's safety lamp....	3005	4 40
	T. A. Randall & Co....	Vitrified paving brick...	3006	1 00
	Christy Fire Clay Co..	Clay .....	3007	4 63
	U. S. Encaustic Tile Co.	Tiles .....	3008	13 79
	G. W. Carman.....	Membership N. C. A. C.	3009	3 00
	F. H. Newell.....	Lecture .....	3010	15 00
	India Alkali Works....	Savogran and oil soap..	3011	26 27
	C. W. Pomeroy.....	Stationery .....	3012	3 50
	Jos. E. Wing.....	Lecture expenses .....	3013	4 40
	Wilbert Morelan .....	Carpentry .....	3014	4 25
	Honline & West.....	Books .....	3015	36 30
	J. H. Randall.....	Carpentry .....	3016	46 00
	W. L. Redrow.....	Lab. assistance .....	3017	2 25
	O. S. Marckworth.....	Laboratory work .....	3018	21 40
	H. C. Price.....	Department supplies ...	3019	7 50
	F. C. Clark.....	Drawing materials .....	3020	1 75
	S. W. Young.....	Library work .....	3021	9 65
	C. H. Woodruff.....	Piece iron.....	3022	15
	Mabel Huddleson.....	Library work .....	3023	10 50

## STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
May 3	Christ Trappe.....	One bay horse.....	3024	\$100 00
	J. W. Shaw.....	Work in law library....	3025	9 70
	Mason Snow.....	Work in law library....	3026	9 90
	Thos. A. Panter.....	Janitor.....	3027	10 58
	J. G. Sterling.....	Student labor.....	3028	1 31
	O. I. Dick.....	".....	3029	2 93
	F. W. Arnold.....	Assistance.....	3030	8 55
	T. V. Stires.....	Work on campus.....	3031	1 75
	L. P. McAllister.....	".....	3032	1 25
	A. E. Day.....	Student labor.....	3033	1 25
	Morris Bugby.....	Work on campus.....	3034	2 18
	Blain Galloway.....	".....	3035	7 18
	J. C. Perry.....	".....	3036	18 10
	John Frank.....	".....	3037	4 59
	Edith Seymour.....	Piano, gym.....	3038	5 50
	Helen Potts.....	".....	3039	11 25
	E. G. Bailey.....	Department labor.....	3040	8 20
	F. J. Hale.....	".....	3041	7 85
	M. L. Seymour.....	Clerical work.....	3042	3 00
	H. C. Nidy.....	Blue printing.....	3043	30
	E. A. Hitchcock.....	Cash advanced.....	3044	31 50
	Richard Spencer.....	Wheeling coal.....	3045	7 50
	Edward Orton, Jr.....	Cash advanced.....	3046	36 75
	G. W. Schubert.....	Guide.....	3047	2 38
	F. C. Long.....	".....	3048	4 75
	E. L. Orndorf.....	".....	3049	4 50
	Roy Thompson.....	".....	3050	3 63
	Arthur Geren.....	Instruments.....	3051	9 09
	F. C. McKinney.....	Guide.....	3052	3 88
	Tallmadge Hdw. Co.....	Hardware.....	3053	21 40
	McClelland & Co.....	Office supplies.....	3054	5 80
	Schoedinger, F'r'n & Co.	Hardware.....	3055	67 45
	Col. Supply Co.....	Supplies.....	3056	50 42
	Blackwood, Green & Co.	Pipe and hardware.....	3057	19 61
	Col. M. & M. Supply Co	Valves, etc.....	3058	54 78
	Kelton & Converse.....	Lumber.....	3059	21 57
	Hann & Adair.....	Envelopes, etc.....	3060	13 16
	Domestic Laundry.....	Washing towels.....	3061	22 72
	H. Braun Sons & Co.....	Supplies.....	3062	13 23
	Troy Laundry Co.....	Washing curtains.....	3063	70
	Standard Oil Co.....	Renown engine oil.....	3064	9 45
	Tracy-Wells Co.....	Sundries.....	3065	27 90
	Hester Getz.....	Cardboard.....	3066	1 75
	Eva Tipton.....	Stenographic work.....	3067	2 80
	Osborn, Will's. & Horn	Coal.....	3068	32 72
	J. P. Carlisle.....	Plaster.....	3069	2 50
	Ohio State Journal Co.	Advertisement.....	3070	13 12
	Spahr & Glenn.....	Printing.....	3071	6 50
	Hanna Paint Mfg. Co.	White lead.....	3072	11 05
	Haydenville M. & M. Co.	Fire clay.....	3073	5 63
	F. O. Schoedinger.....	Can and faucet.....	3074	2 50
	Borger Bros.....	Cylinder.....	3075	4 50
	B. D. Potts.....	Pipe.....	3076	2 90
	Columbus Gas Co.....	Coke.....	3077	12 69
	Wm. Burdell, Jr.....	Hobbles, etc.....	3078	5 75
	E. C. Livenspire.....	".....	3079	1 20
	Col. Wire & Iron Wks.	Partitions, etc.....	3080	15 00
	M. P. Streett.....	Brickwork.....	3081	500 00
	Brust & Bauch.....	Masonry.....	3082	85 00
	B. G. Kalb.....	Stenographic work.....	3083	3 00
	Blanche DeLong.....	".....	3084	1 87

## STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
May 2	Smith Bros. Hdw. Co..	Emery, etc.....	3085	\$1 30
	F. J. Heer.....	Electros of map.....	3086	2 00
	G. Drobisch.....	Shrubs.....	3087	2 50
	Hall-Collins Hdw. Co..	LePages glue.....	3088	2 00
	I. H. Miller.....	Notarial work.....	3089	4 00
	James Penn.....	Hauling.....	3090	3 45
	Seraphim B. B. Co....	Binding.....	3091	37 85
	Val Loewer.....	Range.....	3092	36 00
	The H. Cole Co.....	Drawing materials.....	3093	3 20
	Payne-McD. Hdw. Co..	Glass.....	3094	3 25
	Livingston Seed Co....	Seeds.....	3095	1 60
	Erner & Hopkins.....	Wire.....	3096	1 65
	J. S. Abbott & Co.....	Hardware.....	3097	1 40
	Robert A. McClure....	Table and lumber.....	3098	49 22
	Champlin Printing Co..	Printing.....	3099	75 25
	Hager & Graves.....	Groceries.....	3100	32 97
	The Alpha Dairy Co....	Milk tickets.....	3101	1 10
	Busy Bee C. K. Co....	Supplies.....	3102	1 40
	Kimball & Mathews....	".....	3103	6 55
	Kauffman-Lattimer Co..	Drugs and sundries....	3104	350 85
	P. Hayden Sad. Hd. Co.	Iron.....	3105	9 35
	Engelke & Bigelow....	Freight and cartage....	3106	72 35
	Columbus Gas Co.....	April gas.....	3107	169 80
	Engelke & Bigelow....	Freight, etc.....	3108	27 20
	H. J. McTeague.....	Est. astron'r's. residence.	3109	465 85
	C. H. Davis.....	Two machines.....	3110	70 00
	R. M. Rownd, P. M....	Postage stamps.....	3111	15 00
	John T. Mack.....	Expenses as trustee....	3112	42 25
	Lily Weeks.....	Janitress.....	3113	5 00
	Bucher Engraving Co..	Half tone work.....	3114	31 25
	Bucher Engraving Co..	".....	3115	3 00
	J. McLain Smith.....	Trustee expenses.....	3116	22 90
	R. M. Rownd, P. M....	Deposit, pound postage	3117	10 00
	F. J. Tyler.....	Salary for April.....	3118	25 00
	Helen Powell.....	Clerical work.....	3119	2 00
	E. E. Nobles.....	Drafting.....	3120	12 50
	W. Townsel.....	Salary, May, 1900.....	3121	25 00
	W. C. Weir.....	".....	3122	20 00
	C. H. Woodruff.....	".....	3123	65 00
	W. E. Mann.....	".....	3124	25 00
	Earl Conway.....	Salary, June, 1900.....	3125	20 00
	James Kelley.....	Salary, May, 1900.....	3126	25 00
	Earl Conway.....	".....	3127	20 00
	A. Chantler.....	".....	3128	45 00
	H. Chantler.....	".....	3129	40 00
	M. N. Cook.....	".....	3130	40 00
	A. G. McCall.....	".....	3131	27 00
	E. G. Bailey.....	".....	3132	15 00
	G. C. Denny.....	".....	3133	40 00
	William Whitestone....	".....	3134	40 00
	J. H. Brown.....	".....	3135	15 00
	J. H. Brown.....	".....	3136	25 00
	T. E. Osborn.....	".....	3737	40 00
	D. D. Geren.....	".....	3138	40 00
	R. E. McIntosh.....	".....	3139	12 50
	G. A. Goodspeed.....	".....	3140	40 00
	J. C. Perry.....	".....	3141	12 50
	Benj. Irwin.....	".....	3142	45 00
	J. R. Garrettson.....	".....	3143	37 39
	Geo. R. Rose.....	".....	3144	65 00
	Marion Peck.....	".....	3145	40 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
May 26	W. H. Case.....	Salary, May, 1900.....	3146	\$45 00
	T. M. Boude.....	" ".....	3147	45 00
	Benj. LeBay.....	" ".....	3148	50 00
	W. A. Standley.....	" ".....	3149	50 00
	Chas. M. Low.....	" ".....	3150	54 17
	W. C. McCracken.....	" ".....	3151	150 00
	K. H. Duncan.....	" ".....	3152	54 17
	E. R. Hubler.....	" ".....	3153	33 33
22	E. D. Cockins.....	" ".....	3154	58 33
	Carl E. Steeb.....	" ".....	3155	60 00
	Alexis Cope.....	" ".....	3156	187 50
26	W. O. Thompson.....	" ".....	3157	416 67
	F. L. Landacre.....	" ".....	3158	85 00
	J. S. Hine.....	" ".....	3159	85 00
	Herbert Osborn.....	" ".....	3160	225 00
	O. V. Brumley.....	" ".....	3161	50 00
	C. B. Frederick.....	" ".....	3162	70 00
	W. F. Lavery.....	" ".....	3163	70 00
	D. S. White.....	" ".....	3164	160 00
	Chas. F. Dowd.....	" ".....	3165	20 00
	C. A. Bruce.....	" ".....	3166	100 00
	B. L. Bowen.....	" ".....	3167	225 00
	J. B. Parker.....	" ".....	3168	30 00
	H. C. Allen.....	" ".....	3169	115 00
	G. H. McKnight.....	" ".....	3170	90 00
	W. L. Graves.....	" ".....	3171	100 00
	J. V. Denney.....	" ".....	3172	225 00
	H. W. Brown.....	" ".....	3173	25 00
	F. E. Kester.....	" ".....	3174	80 00
	J. E. Boyd.....	" ".....	3175	120 00
	B. F. Thomas.....	" ".....	3176	225 00
	D. C. Huddleson.....	" ".....	3177	50 00
	S. E. Canfield.....	" ".....	3178	75 00
	C. P. Linhart.....	" ".....	3179	160 00
	F. M. Hamilton.....	" ".....	3180	80 00
	W. H. Scott.....	" ".....	3181	225 00
	N. P. Oglesby.....	" ".....	3182	40 00
	E. E. Harrold.....	" ".....	3183	90 00
	W. A. Landacre.....	" ".....	3184	70 00
	G. B. Kauffman.....	" ".....	3185	200 00
	E. E. Sommermeier.....	" ".....	3186	70 00
	N. W. Lord.....	" ".....	3187	200 00
	F. A. Ray.....	" ".....	3188	200 00
13	Lily Weeks.....	Janitress.....	3189	5 00
26	A. F. Hall.....	Salary, May, 1900.....	3190	60 00
	C. A. Grate.....	" ".....	3191	30 00
	F. J. Hale.....	" ".....	3192	30 00
	E. A. Hitchcock.....	" ".....	3193	150 00
	Wm. F. Magruder.....	" ".....	3194	225 00
	C. L. E. Moore.....	" ".....	3195	10 00
	J. W. Young.....	" ".....	3196	30 00
	E. L. Ball.....	" ".....	3197	30 00
	K. D. Swartzel.....	" ".....	3198	100 00
	C. L. Arnold.....	" ".....	3199	100 00
	G. W. McCoard.....	" ".....	3200	160 00
	R. D. Bohannon.....	" ".....	3201	225 00
	C. B. Guittard.....	" ".....	3202	55 00
	Lucy Allen.....	" ".....	3203	55 00
	Maude Jeffrey.....	" ".....	3204	55 00
	Gertrude Kellicott.....	" ".....	3205	55 00
	H. N. Townshend.....	" ".....	3206	55 00



## STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
May 26	O. B. Jones.....	Salary, May, 1900.....	3207	\$135 00
	D. F. Pugh.....	" " ".....	3208	95 00
	E. O. Randall.....	" " ".....	3209	70 00
	W. H. Page.....	" " ".....	3210	140 00
	E. B. Kinkead.....	" " ".....	3211	120 00
	J. S. Shauck.....	" " ".....	3212	17 50
	J. S. Collins.....	" " ".....	3213	20 00
	W. F. Hunter.....	" " ".....	3214	250 00
	J. W. Beach.....	" " ".....	3215	60 00
	S. C. Derby.....	" " ".....	3216	225 00
	A. H. McIntire.....	" " ".....	3217	30 00
	W. H. Renck.....	" " ".....	3218	85 00
	C. P. Crowe.....	" " ".....	3219	80 00
	W. A. Knight.....	" " ".....	3220	100 00
	F. E. Sanborn.....	" " ".....	3221	200 00
	H. C. Price.....	" " ".....	3222	50 00
	W. R. Lazenby.....	" " ".....	3223	225 00
	A. W. Hodgman.....	" " ".....	3224	100 00
	J. R. Smith.....	" " ".....	3225	225 00
	E. H. Moore.....	" " ".....	3226	20 00
	C. W. Mesloh.....	" " ".....	3227	110 00
	E. A. Eggers.....	" " ".....	3228	225 00
	W. C. Mills.....	" " ".....	3229	35 00
	C. S. Prosser.....	" " ".....	3230	150 00
	J. A. Bownocker.....	" " ".....	3231	100 00
	W. H. Siebert.....	" " ".....	3232	135 00
	J. R. Taylor.....	" " ".....	3233	110 00
	A. C. Barrows.....	" " ".....	3234	225 00
	J. P. Covan.....	" " ".....	3235	70 00
	F. A. Fish.....	" " ".....	3236	60 00
	F. C. Caldwell.....	" " ".....	3237	160 00
	J. P. Gordy.....	" " ".....	3238	225 00
	Grace Pitts.....	" " ".....	3239	30 00
	F. C. Clark.....	" " ".....	3240	160 00
	Silas Martin.....	" " ".....	3241	50 00
	J. H. Vosskuehler.....	" " ".....	3242	30 00
	T. K. Lewis.....	" " ".....	3243	60 00
	T. E. French.....	" " ".....	3244	110 00
	J. N. Bradford.....	" " ".....	3245	180 00
	C. P. Souther.....	" " ".....	3246	80 00
	Perla G. Bowman.....	" " ".....	3247	140 00
	A. V. Bleininger.....	" " ".....	3248	40 00
	Edw. Orton, Jr.....	" " ".....	3249	180 00
	C. E. Sherman.....	" " ".....	3250	110 00
	C. N. Brown.....	" " ".....	3251	225 00
	J. F. Jeffrey.....	" " ".....	3252	10 00
	H. C. Gore.....	" " ".....	3253	30 00
	D. A. Kohr.....	" " ".....	3254	60 00
	W. E. Henderson.....	" " ".....	3255	100 00
	S. A. Norton.....	" " ".....	3256	120 00
	Wm. McPherson.....	" " ".....	3257	225 00
	F. K. Luke.....	" " ".....	3258	50 00
	Alice Dufour.....	" " ".....	3259	25 00
	S. W. Collett.....	" " ".....	3260	25 00
	J. H. Schaffner.....	" " ".....	3261	100 00
	W. A. Kellerman.....	" " ".....	3262	225 00
	H. C. Lord.....	" " ".....	3263	160 00
	M. Dresbach.....	" " ".....	3264	30 00
	C. B. Morrey.....	" " ".....	3265	100 00
	A. M. Bleile.....	" " ".....	3266	225 00
	J. B. Sanborn.....	" " ".....	3267	70 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
May 26	G. W. Knight.....	Salary, May, 1900.....	3268	\$250 00
	A. E. Vinson.....	" " .....	3269	80 00
	H. A. Weber.....	" " .....	3270	225 00
	Frank Ruhlen .....	" " .....	3271	60 00
	J. W. Decker.....	" " .....	3272	140 00
	Wm. D. Gibbs.....	" " .....	3273	160 00
	T. F. Hunt.....	" " .....	3274	250 00
	W. Conklin .....	" " .....	3275	40 00
	F. J. Tyler.....	" " .....	3276	25 00
21	N. P. Oglesby.....	Return fees .....	3277	6 00
	R. M. Rownd, P. M....	Pound postage deposit.	3278	10 00
	Lily Weeks .....	Janitress .....	3279	5 00
	U. S. Mort & Trust Co.	6 mo. int. on \$100,000		
		4½% bonds, due June		
		1st, 1900 .....	3280	2,250 00
June 1	Hayden-Clinton Nat. Bk.	6 mo. int. on \$170,000		
		4½% bonds, due June		
		1, 1900 .....	3281	3,825 00
	Hayden-Clinton Nat. Bk.	6 mo. int. on \$60,000		
		6% bonds, due June		
		1, 1900 .....	3282	1,800 00
	Hayden-Clinton Nat. Bk.	Redpn. of \$10,000 cert's		
		No. 51-60, due June 1		
		1900 .....	3283	10,000 00
May 23	B. S. Stephenson.....	Quartermaster service ..	3284	5 00
	Rollo S. Frame.....	Return fees.....	3285	15 00
28	U. S. Mort. & Trust Co.	Exchange on order 3280	3286	2 25
	Lily Weeks .....	Salary, one week .....	3287	4 00
June 1	R. M. Rownd, P. M....	Pound postage .....	3288	10 00
	R. M. Rownd.....	Stamps .....	3289	35 00
	M. J. Kellenberger....	Services dom. economy.	3290	20 00
	Lily Weeks .....	Janitress .....	3291	3 00
	Nathaniel Reed .....	Guide .....	3292	2 07
4	R. M. Rownd, P. M....	Postal cards, etc.....	3293	15 00
	G. H. McKnight.....	Salary, June, 1900.....	3294	90 00
16	T. F. Hunt.....	" " .....	3295	250 00
	W. D. Gibbs.....	" " .....	3296	160 00
	J. W. Decker.....	" " .....	3297	140 00
	Frank Ruhlen .....	" " .....	3298	60 00
	H. A. Weber.....	" " .....	3299	225 00
	A. E. Vinson.....	" " .....	3300	80
	G. W. Knight.....	" " .....	3301	250 00
5	J. B. Sanborn.....	" " .....	3302	70 00
16	A. M. Bleile.....	" " .....	3303	225 00
	C. B. Morrey.....	" " .....	3304	100 00
	M. Dresbach .....	" " .....	3305	30 00
	H. C. Lord.....	" " .....	3306	160 00
	W. A. Kellerman.....	" " .....	3307	225 00
	J. H. Schaffner.....	" " .....	3308	100 00
	S. W. Collett.....	" " .....	3309	25 00
	Alice Dufour .....	" " .....	3310	25 00
	W. McPherson .....	" " .....	3311	225 00
	S. A. Norton.....	" " .....	3312	120 00
	W. E. Henderson.....	" " .....	3313	100 00
	D. A. Kohr.....	" " .....	3314	60 00
	H. C. Gore.....	" " .....	3315	30 00
	J. F. Jeffrey.....	" " .....	3316	10 00
	C. N. Brown.....	" " .....	3317	225 00
	C. E. Sherman.....	" " .....	3318	110 00
	Edw. Orton, Jr.....	" " .....	3319	180 00
	A. V. Bleining.....	" " .....	3320	40 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
June 16	P. G. Bowman.....	Salary, June, 1900.....	3321	\$140 00
	P. G. Souther.....	" " " " " "	3322	80 00
	J. N. Bradford.....	" " " " " "	3323	180 00
	T. E. French.....	" " " " " "	3324	110 00
	T. K. Lewis.....	" " " " " "	3325	60 00
9	J. H. Vosskuehler.....	" " " " " "	3326	30 00
	S. Martin.....	" " " " " "	3327	50 00
7	F. C. Clark.....	" " " " " "	3328	160 00
16	Grace Pitts.....	" " " " " "	3329	30 00
	J. P. Gordy.....	" " " " " "	3330	225 00
	F. C. Caldwell.....	" " " " " "	3331	160 00
	F. A. Fish.....	" " " " " "	3332	60 00
	J. P. Covan.....	" " " " " "	3333	70 00
13	A. C. Barrows.....	" " " " " "	3334	225 00
16	J. R. Taylor.....	" " " " " "	3335	110 00
	W. H. Siebert.....	" " " " " "	3336	135 00
14	J. A. Bownocker.....	" " " " " "	3337	100 00
16	C. S. Prosser.....	" " " " " "	3338	150 00
13	W. C. Mills.....	" " " " " "	3339	35 00
11	E. A. Eggers.....	" " " " " "	3340	225 00
14	E. H. Moore.....	" " " " " "	3341	20 00
16	C. W. Mesloh.....	" " " " " "	3342	110 00
	J. R. Smith.....	" " " " " "	3343	225 00
5	A. W. Hodgman.....	" " " " " "	3344	110 00
16	W. R. Lazenby.....	" " " " " "	3345	225 00
	H. C. Price.....	" " " " " "	3346	50 00
	F. E. Sanborn.....	" " " " " "	3347	200 00
	W. A. Knight.....	" " " " " "	3348	100 00
	C. P. Crowe.....	" " " " " "	3349	80 00
	W. H. Renck.....	" " " " " "	3350	85 00
9	A. H. McIntire.....	" " " " " "	3351	30 00
16	S. C. Derby.....	" " " " " "	3352	225 00
	J. W. Beach.....	" " " " " "	3353	60 00
13	W. F. Hunter.....	" " " " " "	3354	250 00
16	J. H. Collins.....	" " " " " "	3355	20 00
	J. H. Shauck.....	" " " " " "	3356	17 50
	E. B. Kinkead.....	" " " " " "	3357	120 00
	W. H. Page.....	" " " " " "	3358	140 00
	E. O. Randall.....	" " " " " "	3359	70 00
	D. F. Pugh.....	" " " " " "	3360	95 00
8	O. B. Jones.....	" " " " " "	3361	135 00
16	H. N. Townshend.....	" " " " " "	3362	55 00
	G. Kellicott.....	" " " " " "	3363	55 00
	Maude Jeffrey.....	" " " " " "	3364	55 00
9	Lucy Allen.....	" " " " " "	3365	55 00
16	C. B. Guittard.....	" " " " " "	3366	55 00
14	R. D. Bohannon.....	" " " " " "	3367	225 00
16	G. W. McCoard.....	" " " " " "	3368	160 00
	C. L. Arnold.....	" " " " " "	3369	100 00
	K. D. Swartzel.....	" " " " " "	3370	100 00
11	Emma Ball.....	" " " " " "	3371	30 00
16	J. W. Young.....	" " " " " "	3372	30 00
	C. L. E. Moore.....	" " " " " "	3373	10 00
	W. T. Magruder.....	" " " " " "	3374	225 00
13	E. A. Hitchcock.....	" " " " " "	3375	150 00
16	F. J. Hale.....	" " " " " "	3376	30 00
	Chas. A. Grate.....	" " " " " "	3377	30 00
	A. F. Hall.....	" " " " " "	3378	60 00
14	F. A. Ray.....	" " " " " "	3379	200 00
16	N. W. Lord.....	" " " " " "	3380	200 00
14	E. E. Somermeier.....	" " " " " "	3381	70 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
June 16	G. B. Kauffman.....	Salary, June, 1900.....	3382	\$200 00
	W. A. Landacre.....	" " .....	3383	70 00
	E. E. Harrold.....	" " .....	3384	90 00
	N. P. Oglesby.....	" " .....	3385	40 00
	W. H. Scott.....	" " .....	3386	225 00
	F. M. Hamilton.....	" " .....	3387	80 00
	C. P. Linhart.....	" " .....	3388	160 00
	S. E. Canfield.....	" " .....	3389	75 00
	D. C. Huddleson.....	" " .....	3390	50 00
14	B. F. Thomas.....	" " .....	3391	225 00
16	J. E. Boyd.....	" " .....	3392	120 00
8	F. E. Kester.....	" " .....	3393	80 00
16	W. L. Graves.....	" " .....	3394	100 00
9	H. C. Allen.....	" " .....	3395	115 00
	J. B. Parker.....	" " .....	3396	30 00
5	H. W. Brown.....	" " .....	3397	25 00
14	J. V. Denney.....	" " .....	3398	225 00
	B. L. Bowen.....	" " .....	3399	225 00
16	C. A. Bruce.....	" " .....	3400	100 00
14	C. F. Dowd.....	" " .....	3401	20 00
16	D. S. White.....	" " .....	3402	160 00
14	W. F. Lavery.....	" " .....	3403	70 00
9	C. B. Frederick.....	" " .....	3404	70 00
14	O. V. Brumley.....	" " .....	3405	50 00
16	H. Osborn.....	" " .....	3406	225 00
9	J. S. Hine.....	" " .....	3407	85 00
13	F. L. Landacre.....	" " .....	3408	85 00
6	H. R. Marietta.....	Incidental fee .....	3409	15 00
	C. W. Schubert.....	Guide service .....	3410	6 88
	J. H. Randall.....	Carpentry work .....	3411	38 25
	W. Morlan.....	" " .....	3412	10 51
	J. C. Perry.....	Campus work .....	3413	14 40
	F. J. Pavlieck.....	Guide service .....	3414	5 50
	Arthur Geren.....	Drawing supplies .....	3415	4 68
9	H. J. Hammond.....	Department supplies ..	3416	1 32
6	W. C. Smith.....	Addressing envelopes ..	3417	1 65
	E. L. Orndorff.....	Guide services .....	3418	5 50
	H. L. Dowd.....	Addressing envelopes ..	3419	1 66
	C. E. Schumacher.....	Typewriting .....	3420	6 20
	S. E. Canfield.....	Department supplies ..	3421	2 55
	T. Rickey.....	Department labor .....	3422	10 00
	E. Seymour.....	Accompanying piano ..	3423	3 50
	H. Potts.....	Accompanying classes ..	3424	4 50
	M. Dresbach.....	Department supplies ..	3425	6 93
	F. C. Clark.....	" " .....	3426	1 05
	W. C. McCracken.....	Money advanced .....	3427	2 60
	C. L. Sackett, Mgr.....	Adv. in Lantern.....	3428	58 34
	C. P. Souther.....	Department supplies....	3429	3 00
	F. R. Kunkle.....	Labor .....	3430	15 15
	B. B. Wells.....	" " .....	3431	5 35
	O. I. Dick.....	" " .....	3432	4 50
	F. W. Arnold.....	" " .....	3433	11 25
	T. A. Panter.....	" " .....	3434	11 48
	C. P. Linville.....	Lab. assistance .....	3435	6 60
	W. McPherson.....	Department supplies ..	3436	1 96
	W. L. Redrow.....	Labor .....	3437	2 25
	Laura Hill.....	Clerical labor.....	3438	13 00
	Chas. R. Hall.....	Extra labor .....	3439	63
	E. G. Bailey.....	Labor on boilers.....	3440	13 13
	E. A. Hitchcock.....	Incidentals .....	3441	2 77
	J. A. Beer.....	Lab. assistance .....	3442	6 30



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
June 6	C. B. Frederick.....	Dept. supplies.....	3445	\$39 25
	M. L. Seymour.....	Stenographic work .....	3443	7 35
	E. E. Nobles.....	Drafting .....	3444	1 75
	T. E. Osborne.....	Cleaning guns .....	3446	3 50
	T. E. French.....	Filling out commissions .....	3447	3 45
	G. Bruder .....	Band instruction .....	3448	68 00
	R. W. Funk.....	Labor in store room.....	3449	37 87
	A. V. Bleining.....	Expenses .....	3450	4 70
	C. Albin .....	Guide service .....	3451	75
	R. F. Abbott.....	Band service .....	3452	15 00
	O. P. Cockerill.....	Expenses orat. contest.....	3453	21 00
	J. A. Bownocker.....	Exp. to high school.....	3454	12 05
	W. O. Thompson.....	Expenses legislature .....	3455	5 25
	F. C. Long.....	Guide service .....	3456	10 63
	K. H. Duncan.....	Street car tickets.....	3457	5 00
	F. C. McKinney.....	Guide service .....	3458	5 14
	R. Thompson .....	" .....	3459	8 00
	Helen Powell.....	Clerical service.....	3460	1 28
	M. Matthews .....	Guide service .....	3461	50
	J. E. Loughrey.....	Guide service .....	3462	63
	M. Bugby .....	Guide and campus work .....	3463	4 20
	J. Frank.....	Guide service .....	3464	1 07
	J. F. Clevinger.....	Campus work .....	3465	1 82
	J. Frank .....	" .....	3466	4 75
	F. E. Fleischer.....	" .....	3467	20 62
	M. Snow .....	Work in library.....	3468	12 62
	M. Huddleson.....	" .....	3469	13 00
	J. W. Shaw.....	Work in law library.....	3470	12 00
	S. N. Young.....	" .....	3471	11 85
	Honline & West.....	Books .....	3472	9 47
16	Kauffman-Lattimer Co..	Drugs and sundries.....	3473	294 33
8	H. J. McTeague.....	Estimate No. 3 as res.....	3474	1,263 21
16	F. A. Stallman.....	Trunk hardware .....	3475	6 36
	Payne-McD. Hdw. Co..	Hardware .....	3476	32 10
	New Col. Bridge Co....	Beams and stirrups.....	3477	11 21
	Kimball & Matthews.....	Drawing supplies .....	3478	13 50
	Col. Plate & W. Glass..	Glass .....	3479	9 40
	W. H. Miller Co.....	Valve .....	3480	5 40
	Schilling Foundry Co..	Castings .....	3481	1 59
	H. Cole Co.....	Tracing cloth .....	3482	6 46
	H. Goldsmith.....	Music .....	3483	17 80
	Wm. Burdell, Jr.....	Top dressing .....	3484	2 50
	Perry Smythe .....	Framing .....	3485	2 25
	Warren Southw'k C. Co.	Repairing .....	3486	55 00
	Columbus Buggy Co....	Hickory kindling .....	3487	2 00
8	B. S. Stephenson.....	Quartermaster service.....	3488	10 00
	J. W. Smith.....	Course lec'res met'r'l'gy.....	3489	100 00
	Columbus Gas Co.....	May gas bill .....	3490	149 85
16	Bucher Eng. Co.....	Blocking cuts .....	3491	30
11	Eldridge & Higgins Co.	Mason jars .....	3492	2 59
16	Columbus Gas Co.....	Coke .....	3493	13 74
	Penna. Fuel Co.....	Coal .....	3494	8 25
	Engelke & Bigelow.....	Hauling to dumps.....	3495	30 00
	Miller Furn. Co.....	Leather couch .....	3496	35 00
	Col. Lithograph Co.....	Bond engraving .....	3497	35 00
	F. E. Callins.....	Work in law library.....	3498	2 40
	Orvis & Marshall.....	Office supplies .....	3499	2 00
	Western U. Tel. Co....	Telegrams .....	3500	6 46
	Postal Tel. & Cable Co.	" .....	3501	44
	Columbus Bank Note Co.	Diplomas .....	3502	98 00
	Hofman Supply Co.....	Engraving .....	3503	1 86

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
June 16	Jones Nat. Fence Co...	Repairing fence.....	3508	\$76 61
	Harrington & Non'm'ch'r	Cleaning nilometer .....	3504	1 50
	McAuley Sellars Co....	Curtains .....	3505	6 50
	Kinnear Gager Co....	Steel ceiling .....	3506	80 00
	Col. Wire & Iron Wks..	Grills .....	3507	12 00
14	J. Ferrell .....	Granite bowl .....	3509	36 00
16	Seraphim B. Book Co..	Binding .....	3510	33 95
9	Alexis Cope .....	Salary, June, 1900.....	3511	187 50
16	McAllister Mohler Co..	Book case.....	3512	13 50
	F. J. Heer.....	Printing bulletins .....	3513	680 00
	Hall-Collins Hdw. Co..	Hardware .....	3514	3 33
	Borger Bros. & Co.....	Grate bars .....	3515	13 35
	Andrews & Knight.....	Lubricator .....	3516	3 08
	Wolfram Guitar Co....	Piano rent .....	3517	31 25
	Domestic Laundry .....	Towel washing .....	3518	23 92
	Beck & Orr.....	Mounting maps .....	3519	1 50
	Rich. Munk & Co.....	Supplies .....	3520	27 36
	W. H. Miller Co.....	Gate valves .....	3521	12 10
	W. W. Semple.....	Economizer .....	3522	10 50
	M. P. Streett.....	Balance on brick work..	3523	150 00
	E. Doddington & Co....	Lumber .....	3524	17 40
	Murray City Coal Co..	Coal .....	3525	978 80
	Schoedinger, F'r'n & Co.	Glass .....	3526	2 52
	Kelton & Converse.....	Lumber .....	3527	36 77
	Standard Oil Co.....	Oil .....	3528	31 26
	Hann & Adair.....	Printing .....	3529	46 70
	R. A. McClure.....	Lumber and mill work..	3530	18 65
	McClelland & Co.....	Supplies .....	3531	2 40
	Dunn, Taft & Co.....	Dry goods .....	3532	14 83
	M. C. Lilley & Co.....	Flags, medals, etc.....	3533	123 75
	Engelke & Bigelow....	Freight and cartage....	3534	46 18
	Central Ohio Paper Co.	Paper .....	3535	22 03
	Capital City Mach. Wks.	Waste, shafting, etc....	3536	13 28
	Palmer & Beck.....	Boxes .....	3537	67 00
	Blackwood, Green & Co.	Tin, etc.....	3538	5 38
	Z. L. White Co.....	Velveteen .....	3539	1 88
	J. Penn .....	Drayage .....	3540	5 38
	Tallmadge Hard. Co....	Hardware .....	3541	24 45
	Columbus Supply Co....	Supplies .....	3542	166 99
	Nitschke Bros .....	Printing .....	3543	370 05
	Champlin Printing Co..	Printing bulletins .....	3544	478 20
	Spahr & Glenn.....	" .....	3545	21 75
	Osborne, Will's. & Horn	Coal .....	3546	54 70
	J. S. Abbott & Co.....	Hardware .....	3547	26 88
	Bradford, Rhodes & Co.	History of banking.....	3548	6 50
	J. Carbutt .....	Plates .....	3549	18 90
	G. E. Stechert.....	Books .....	3550	142 99
	Burrows Bros. Co.....	" .....	3551	49 52
	Open Court Pub. Co....	Portraits .....	3552	18 00
	H. W. Johns Mfg. Co....	Prime .....	3553	1 60
	Babcock & Wilcox Co..	Boiler installation .....	3554	53 97
	E. R. Curtiss.....	Set economists.....	3555	4 00
	Storrs & Harrison Co..	Roses .....	3556	7 21
	D. W. McGlenen.....	List high school names..	3557	10 00
	Egyptian Lacquer M. Co.	Lacquer .....	3558	1 38
	F. H. Smith.....	Leafillers .....	3559	3 50
	Crescent Steel Co.....	Steel .....	3560	25 61
	Lewis & Wiltsee.....	Advertising .....	3561	10 00
	Chicago Blue Pr. P. Co.	Blue print paper.....	3562	16 96
	American Aristotype Co.	Paper .....	3563	14 55
	J. S. Bushnell.....	Repairs .....	3564	3 90

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
June 16	Chicago Lab. S. & S. Co.	Supplies .....	3571	\$3 60
	The Lunkenheimer Co..	Valves .....	3565	14 37
	Crosby St. G. & V. Co..	Pencil lever .....	3566	3 32
	Gardner Governor Co...	Pump governor .....	3567	27 00
	A. E. Foote.....	Mineral collection .....	3568	30 00
	E. H. Sargent.....	Clamps .....	3569	1 38
	Akron China Co.....	Bisque ware .....	3570	2 00
	Haussman & Dunn.....	Hauss speculum .....	3572	9 89
	J. C. Witter Co.....	Plaster casts.....	3573	15 74
	Storrs & Harrison Co...	Trees, stock, etc.....	3574	10 75
	M. J. Lampe.....	Charcoal .....	3575	9 00
	Webb Sta. & Ptg. Co...	Supplies .....	3576	11 70
	Am. Jersey Cattle Club.	Herd register .....	3577	10 00
	T. Meehan & Son.....	Shrubs .....	3578	20 40
	American Cotswold Co..	Record .....	3579	8 00
	Am. Clydesdale Assn...	Stud book .....	3580	12 00
	Colliery Engineer Co...	Sub. Mines & Minerals	3581	2 50
	W. H. Anderson & Co..	Digest Mich. ....	2582	18 00
	Lamson & Carpenter...	Linear perspective set..	3583	15 00
	H. B. Richards, Secy...	Herd book .....	3584	2 00
	Jos. Battell.....	Register .....	3585	5 00
	Geo. T. King.....	Cooking encyclopedia...	3586	18 50
	Library Bureau .....	Desk and chair .....	3587	35 00
	Knauth, Nachod Kuehne	Books .....	3588	8 97
	W. O. Thompson.....	Salary, June, 1900....	3589	416 67
	C. E. Steeb.....	" " .....	3590	60 00
	E. D. Cickins.....	" " .....	3591	58 33
	E. R. Hubler.....	" " .....	3592	33 33
	K. H. Duncan.....	" " .....	3593	54 17
	W. C. McCracken.....	" " .....	3594	150 00
	C. M. Low.....	" " .....	3595	54 17
	W. A. Standley.....	" " .....	3596	50 00
	Ben. LeBay .....	" " .....	3597	50 00
	T. M. Boude.....	" " .....	3598	45 00
	Marion Peck .....	" " .....	3599	40 00
13	Geo. R. Rose.....	" " .....	3600	65 00
	J. Garrettsen .....	" " .....	3601	37 39
	Ben. Irwin .....	" " .....	3602	45 00
	J. C. Ferry.....	" " .....	3603	12 50
	G. A. Goodspeed.....	" " .....	3604	40 00
	R. E. McIntosh.....	" " .....	3605	12 50
	D. D. Geren.....	" " .....	3606	40 00
	J. H. Brown.....	" " .....	3607	15 00
	J. H. Brown.....	" " .....	3608	25 00
	W. Whitestine.....	" " .....	3609	40 00
11	M. J. Kellenberger....	Serv. in dom. economy.	3610	10 00
16	G. C. Denny.....	Salary, June, 1900....	3611	40 00
14	E. G. Bailey.....	" " .....	3612	15 00
16	A. G. McCall.....	" " .....	3613	27 00
	M. N. Cook.....	" " .....	3614	40 00
	H. Chantler .....	" " .....	3615	40 00
	A. Chantler .....	" " .....	3616	45 00
	J. Kelly .....	" " .....	3617	25 00
	W. Townsel .....	" " .....	3618	25 00
	F. J. Tyler.....	" " .....	3619	25 00
	C. H. Woodruff.....	" " .....	3620	65 00
14	W. E. Mann.....	" " .....	3621	25 00
12	T. J. Godfrey.....	Expenses trustee.....	3622	32 50
14	J. G. Sterling, Treas..	Adv. in Makio.....	3623	50 00
	R. M. Rownd, P. M....	Postage deposit .....	3624	10 00
19	R. J. Seymour.....	33 hours' work com'ent	3633	4 95

## STATEMENT II — Concluded.

Date	To whom paid	For what purpose	No	Amount
1900				
June 19	Dr. J. H. Barrows.....	Baccalaureate address...	3634	\$50 00
16	J. McLain Smith.....	Expense trustee .....	3625	7 55
	J. T. Mack.....	Trustee expenses .....	3626	13 65
	F. R. Kunkle.....	Student labor .....	3627	16 95
	T. A. Panter.....	Janitor service .....	3628	18 00
	O. I. Dick.....	Student labor .....	3629	14 10
	H. A. Preston.....	Choir service .....	3630	25 00
19	R. M. Rownd, P. M....	500 2ct postage stamps..	3631	10 00
20	R. M. Rownd, P. M....	2000 stamped envelopes..	3632	42 80
21	Central Union Tel. Co.	'Phone rent to June 30..	3635	81 00
22	D. M. Massie.....	Trustee expense.....	3636	32 37
25	C. W. Gayman.....	W. J. Bryan prize.....	3637	15 65
28	R. M. Rownd, P. M....	Postage stamps .....	3638	10 00
	<b>Total.....</b>	.....	.....	<b>\$308,491 34</b>



## STATEMENT III.

In compliance with section 7 of the *Organic Act*, passed by the Legislature of Ohio, May 1, 1878, (Bates' Annotated Ohio Statutes, sec. 4105-41) which requires the list of "the number of professors, officers, teachers and other employes, and the compensation of each, to be annually reported," I submit the following:

Employees	Position	Salary
William Oxley Thompson	President .....	5,000 00
W. H. Scott.....	Professor of philosophy.....	2,250 00
(1) Edward Orton.....	" geology .....	600 00
W. R. Lazenby.....	" horticulture and forestry .....	2,250 00
Josiah R. Smith.....	" Greek language & literature .....	2,250 00
Henry A. Weber.....	" agricultural chemistry .....	2,250 00
Benj. F. Thomas.....	" physics .....	2,250 00
Geo. W. Knight.....	" history and political science .....	2,500 00
R. Daniel Bohannon.....	" mathematics .....	2,250 00
Herbert Osborn.....	" zoology and entomology .....	2,250 00
Ernst A. Eggers.....	" German language; literature .....	2,250 00
C. Newton Brown.....	" civil engineering .....	2,250 00
Albert M. Bleile.....	" anatomy and physiology .....	2,250 00
Wm. A. Kellerman.....	" botany .....	2,250 00
Thos. F. Hunt.....	" agriculture .....	2,250 00
Samuel C. Derby.....	" Latin language, literature .....	2,250 00
Nathaniel W. Lord.....	" metallurgy and mineralogy .....	2,000 00
Frank E. Sanborn.....	Director of industrial department.....	2,000 00
Allen C. Barrows.....	Professor of English literature.....	2,250 00
Joseph V. Denney.....	" rhetoric and Eng'sh language .....	2,250 00
Benj. L. Bowen.....	" Romance languages .....	2,250 00
W. F. Hunter.....	Dean of the faculty.....	2,500 00
Geo. B. Kauffman.....	Professor of pharmacy.....	2,000 00
J. P. Gordy.....	" education .....	2,250 00
Wm. T. Magruder.....	" mechanical engineering .....	2,250 00
Edward Orton, Jr.....	Director school of ceramics.....	1,800 00
Frank A. Ray.....	Associate professor mining engineering.....	2,000 00
Jos. N. Bradford.....	Professor of drawing.....	1,800 00
Wm. McPherson.....	" chemistry .....	2,250 00
Geo. W. McCoard.....	Associate professor mathematics.....	1,600 00
Sidney A. Norton.....	Lecturer in general chemistry.....	1,200 00
F. C. Caldwell.....	Associate professor electrical engineering.....	1,500 00
Henry C. Lord.....	Director observatory .....	1,600 00
C. E. Sherman.....	Assistant professor civil engineering.....	1,100 00
E. A. Hitchcock.....	Associate professor experimental engineering.....	1,500 00
W. D. Gibbs.....	" agriculture .....	1,600 00
C. W. Mesloh.....	" German .....	1,100 00
David S. White.....	Professor veterinary medicine.....	1,600 00
Thos. E. French.....	Assistant in drawing.....	1,100 00
F. C. Clark.....	Associate professor of economics.....	1,600 00
Olive B. Jones.....	Librarian .....	1,350 00
William Henry Renck.....	Foreman carpenter shop.....	850 00
William A. Knight.....	" machine shops .....	1,000 00
Charles Philip Crowe.....	" forge room .....	800 00
J. E. Boyd.....	Assistant professor physics.....	1,200 00
Karl D. Swartzel.....	" mathematics .....	1,000 00
W. L. Graves.....	" rhetoric .....	1,000 00
Jas. S. Hine.....	Assistant professor of entomology.....	850 00
A. E. Vinson.....	" in agricultural chemistry.....	800 00
Charles B. Morrey.....	Assistant professor anatomy & physiology .....	1,000 00
John Wright Decker.....	Associate professor dairying.....	980 00
E. E. Sommermeier.....	Assistant in metallurgy and mineralogy.....	700 00
Arthur W. Hodgman.....	Associate professor classic languages.....	1,100 00
Frank Ruhlen.....	Assistant in agriculture.....	720 00
J. A. Bownocker.....	Associate professor geology.....	1,000 00
W. H. Siebert.....	" European history.....	1,350 00

(1) Died October 16, 1899.

## STATEMENT III — Continued.

Employees	Position	Salary
C. L. Arnold.....	Assistant professor of mathematics.....	1,000 00
Walter Landacre .....	" in pharmacy.....	700 00
W. F. Lavery.....	" veterinary medicine.....	700 00
E. E. Harold.....	Storekeeper .....	900 00
C. B. Frederick.....	Assistant professor veterinary medicine...	700 00
Thos. K. Lewis.....	Assistant in drawing.....	600 00
Charles A. Bruce.....	Assistant professor of French.....	1,000 00
F. L. Landacre.....	Assistant in zoology.....	850 00
A. V. Bleininger.....	Assistant in ceramics.....	400 00
William E. Henderson...	Assistant professor analytical chemistry..	1,000 00
Harriet Townshend .....	Assistant in library.....	550 00
Frederick E. Kester.....	Instructor in physics.....	800 00
J. H. Schaffner.....	Assistant professor botany.....	1,000 00
Charles A. Grate.....	Fellow in mechanical engineering.....	300 00
F. T. Hale .....	" .....	300 00
F. A. Fish.....	Assistant in electrical engineering.....	600 00
Donald Alexis Kohr.....	Assistant in chemistry.....	600 00
Herbert Charles Gore....	Fellow in chemistry.....	300 00
Maud Jeffreys .....	Assistant in library.....	550 00
Gertrude Kellicott .....	" .....	550 00
G. B. Guittard .....	" .....	550 00
Lucy Allen .....	" .....	550 00
F. K. Luke.....	Florist .....	600 00
C. P. Linhart.....	Director physical training.....	1,600 00
Perla G. Bowman.....	Associate professor domestic science.....	1,400 00
Cornelia P. Souther.....	Assistant in domestic science.....	800 00
J. R. Taylor.....	Assistant professor Eng. literature.....	1,100 00
Francis M. Hamilton.....	" in philosophy and pedagogy.....	800 00
Stella Elliott Canfield...	Associate director physical training.....	750 00
M. Dresbach .....	Fellow in anatomy and physiology.....	300 00
Emma L. Ball.....	" mathematics .....	300 00
John Wesley Young.....	" mathematics .....	300 00
A. H. McIntire.....	" industrial arts .....	300 00
Homer Charles Frice.....	Assistant in horticulture and forestry....	600 00
W. H. Page.....	Professor of law.....	1,400 00
E. B. Kinkead.....	" .....	1,200 00
D. F. Pugh.....	" .....	950 00
E. O. Randall.....	" .....	700 00
J. H. Collins.....	" .....	200 00
John A. Shauck.....	" .....	175 00
John B. Sanborn.....	Assistant in American history .....	700 00
Don C. Huddleston.....	" gymnasium .....	500 00
J. H. Vosskuhl.....	" drawing .....	300 00
Delbert A. Crouner.....	Student assistant in butter making.....	100 00
Elisha Smith.....	" dairying .....	100 00
John B. Parker.....	Fellow in rhetoric.....	300 00
Herbert W. Kennedy.....	Emerson McMillin fellow in astronomy..	300 00
Samuel W. Collett.....	Fellow in botany .....	250 00
Alexis Cope.....	Secretary .....	2,250 00
Carl E. Steeb.....	Accountant .....	720 00
Katharine H. Duncan....	Executive clerk .....	650 00
Edith D. Cockins.....	Registrar .....	700 00
W. C. McCracken.....	Chief engineer .....	1,800 00
Chas. Low .....	Assistant engineer .....	650 00
Wm. Stanley .....	" .....	600 00
Geo. R. Rose.....	Plumber .....	780 00
Benjamin Irwin .....	Watchman .....	540 00
James Kelley .....	Lawnkeeper .....	300 00
Mrs. E. R. Hubler.....	Telephone attendant .....	400 00
Benj. LeBay.....	Steam fitter .....	600 00

## STATEMENT III — Concluded.

Employees	Position	Salary
Wash. Townsel .....	Janitor .....	300 00
G. A. Goodspeed .....	" .....	480 00
Henry Chantler .....	" .....	480 00
Arthur Chantler .....	" .....	540 00
J. H. Brown .....	" .....	480 00
M. N. Cook .....	" .....	480 00
D. D. Geren .....	" .....	480 00
Wm. Whitestone .....	" .....	480 00
G. C. Denny .....	" .....	480 00
E. H. Bailey .....	" .....	150 00
R. E. McIntosh .....	" .....	125 00
Wm. Weir .....	Elevator attendant .....	200 00
W. C. Mills .....	Curator of the archæological collection .....	350 00
A. G. McCall .....	Janitor .....	240 00
Thomas Boude .....	First fireman .....	450 00
W. E. Case .....	Second fireman .....	360 00
Marion Peck .....	Helper .....	400 00
Alice Dufour .....	Fellow in botany .....	250 00
F. O. Clements .....	" chemistry .....	300 00
J. F. Jeffrey .....	Laboratory assistant in chemistry .....	100 00
J. W. Groves .....	Assistant civil engineering .....	150 00
Wm. Cannan .....	Ceramic scholarship .....	200 00
Silas Martin .....	Assistant in drawing .....	500 00
W. E. Mann .....	McMillin fellowship in economics .....	250 00
Grace Pitts .....	Fellow in economics .....	300 00
J. P. Covan .....	Electrician .....	770 00
Chas. S. Prosser .....	Associate professor geology .....	1,500 00
E. H. Moore .....	Student assistant in German .....	200 00
J. W. Beach .....	Assistant in Latin .....	300 00
C. L. E. Moore .....	Student assistant in mathematics .....	150 00
A. F. Hall .....	Machinist .....	720 00
N. P. Oglesby .....	Assistant storekeeper .....	360 00
H. W. Brown .....	Fellow in physics .....	250 00
G. H. McKnight .....	Assistant professor of rhetoric .....	900 00
H. C. Allen .....	Asst. prof. rhetoric and public speaking .....	1,150 00
Chas. F. Dowd .....	Student assistant in French .....	200 00
O. V. Brumley .....	Assistant in veterinary medicine .....	500 00
Joseph Garrettson .....	Helper to plumber .....	450 00
J. C. Perry .....	Janitor .....	125 00
T. E. Osburn .....	" .....	320 00
W. Conklin .....	" .....	360 00
Earl Conway .....	Helper .....	240 00
C. H. Woodruff .....	Carpenter .....	780 00
F. J. Tyler .....	Gardener .....	75 00

COLUMBUS, OHIO, September 26, 1900.

*To the Board of Trustees of the Ohio State University:*

The finance committee, in obedience to your instructions, has examined the accounts and vouchers of L. F. Kieseewetter, treasurer of the university, for the fiscal year ending June 30, 1900, and has carefully compared them with the accounts and vouchers in the hands of the secretary, and hereby certifies that said report is correct.

D. M. MASSIE,  
J. McLAIN SMITH,  
PAUL JONES,

*Finance Committee.*



## REPORT OF RECEIPTS AND DISBURSEMENTS "NEW MORRILL FUND."

Report of treasurer of Ohio State University to the secretary of agriculture and the secretary of the interior, of amount received under act of congress of August 30, 1890, in aid of colleges of agriculture and the mechanic arts, and of the disbursements thereof, to and including June 30, 1900.

Balance on hand July 1, 1899.....	\$37 31
Date of receipt of installment for 1899-1900, July 7, 1899, Amount....	25,000 00
Total available for year ended June 30, 1900.....	25,037 31
Disbursements thereof for and during the year ended June 30, 1900:	
Agriculture, as per Schedule A.....	4,341 61
Mechanic Arts, as per Schedule B.....	8,178 19
English Language, as per Schedule C.....	1,258 99
Mathematical Science, as per Schedule D.....	2,072 82
Natural or Physical Science, as per Schedule E.....	7,860 40
Economic Science, as per Schedule F.....	1,126 99
Total expended during year.....	24,839 00
Balance remaining unexpended July 1, 1900.....	198 31

I hereby certify that the above account is correct and true, and, together with the schedules hereunto attached, truly represents the details of expenditures for the period and by the institution named, and that said expenditures were applied only to instruction in agriculture, the mechanic arts, the English language, and the various branches of mathematical physical, natural, and economic science, with special reference to their application in the industries of life, and to the facilities for such instruction.

L. F. KIESEWETTER,  
*Treasurer.*

## SCHEDULE A.

Disbursements for instruction in Agriculture and for facilities for such instruction, during the year ended June 30, 1900.

Name of instructors	Subjects taught for which paid from "Morrill Fund"	Amount
I. For salaries of instructors:		
Thos. F. Hunt, Prof. of Agr....	Agriculture .....	\$500
W. D. Gibbs, Asso. Professor..	" .....	320
Jno. W. Decker, Asso. Professor	Dairy Husbandry .....	140
Frank Ruhlen, Assistant.....	Agriculture .....	120
Perla G. Bowman, Asso. Prof...	Domestic Science .....	300
Cornelia Louthier, Assistant....	Domestic Art .....	80
H. A. Weber, Professor.....	Agricultural Chemistry .....	450
A. E. Vinson, Assistant.....	" .....	160
W. R. Lazenby, Professor.....	Horticulture .....	450
Homer C. Price, Assistant.....	" .....	50
David S. White, Professor.....	Veterinary Medicine .....	160
W. F. Lavery, Asst. Professor...	" .....	70
C. B. Frederick, Assistant.....	" .....	70
O. V. Brumley, Assistant.....	" .....	50
J. A. Wallace, Lecturer.....	Agriculture .....	5
II. For facilities, as follows:		
Text-books and reference books.....		\$69 28
Department of Agriculture.		
Seeds, \$46.70; tools and hardware, \$54.92; husking, \$15.00; live stock, \$32.00; harness, \$86.27; feed, \$322.20; farm implements, \$9.00; machinery, \$356.77; apparatus, \$40.23; supplies, \$5.71 .....		\$968 80
Dairy Laboratory.		
Dairy implements, \$24.00; dairy supplies, \$163.58; dairy machinery, \$100.79; scales, \$7.00.....		\$295 37
Horticulture and Forestry.		
Pots, \$20.00 .....		\$20 00
Veterinary Medicine.		
Jars, \$13.58; hospital supplies, \$16.22; instruments, \$23.36; cages, \$10.00 .....		\$63 16
Total .....		\$4,341 61

## SCHEDULE B.

Disbursements for instruction in Mechanic Arts and for facilities for such instruction, during the year ended June 30, 1900.

Name of instructors	Subjects taught for which paid from "Morrill Fund"	Amount
<b>I. For salaries of instructors:</b>		
C. N. Brown, Professor.....	Civil engineering .....	\$450
C. E. Sherman, Asst. Professor..	" .....	220
John W. Groves, Assistant.....	" .....	50
W. T. Magruder, Professor.....	Mechanical engineering .....	450
E. A. Hitchcock, Asso. Prof....	" .....	300
C. A. Grate, Assistant.....	" .....	30
F. J. Hale, Assistant.....	" .....	30
N. W. Lord, Professor.....	Metallurgy and Mineralogy...	400
F. A. Ray, Professor.....	Mine engineering .....	400
E. E. Somermeier, Assistant....	Metallurgy .....	140
Edward Orton, Jr., Asso. Prof..	Ceramics .....	360
A. V. Bleiningner, Assistant.....	" .....	90
F. C. Caldwell, Asso. Professor..	Electrical engineering .....	320
F. A. Fish, Assistant.....	" .....	120
J. P. Covan, Assistant.....	" .....	70
Geo. B. Kauffman, Professor....	Pharmacy .....	400
W. A. Landacre, Asst. Prof....	" .....	70
N. P. Oglesby, Assistant.....	" .....	40
F. E. Sanborn, Professor.....	Industrial Arts .....	380
W. A. Knight, Assistant.....	Machine work .....	100
W. H. Renck, Assistant.....	Carpenter and Pattern work...	170
C. P. Crowe, Assistant.....	Forge work .....	160
A. H. McIntyre, Assistant.....	Industrial Arts .....	60
J. N. Bradford, Professor.....	Drawing .....	360
T. E. French, Asst. Professor...	" .....	220
T. H. Lewis, Assistant.....	" .....	120
Silas Martin, Assistant.....	" .....	50
I. H. Vosskuehler, Assistant....	" .....	30
<b>II. For facilities, as follows:</b>		
Text-books and reference books.....		\$161 37
Department of Ceramics.		
Supplies, \$25.22; hardware, \$19.65; balances, \$102.10; tile, \$38.35; kiln, \$351.99; pump, \$4.61.....		541 92
Department of Civil Engineering.		
Tapes .....		5 36
Department of Drawing.		
Cameras, \$230.75; drawing tables, \$22.50.....		253 25
Department of Electrical Engineering.		
Castings, \$81.28; electrical supplies, \$98.90; lantern, \$30.00; motor, \$260.00; instruments, \$46.85; tools and hardware, \$27.41.		544 44

## SCHEDULE B — Concluded.

	Amount.
Department of Industrial Arts.	
Lumber, \$546.19; tools and hardware, \$169.24; paints, \$10.30; iron and steel, \$64.74; supplies, \$5.67; patterns, \$32.60; machinery, \$4.84 .....	833 58
Department of Mechanical Engineering.	
Supplies, \$14.90; machinery, \$102.12; paints, \$17.55; tools, \$29.95; apparatus, \$32.50; thermometers, \$26.25; ice, \$25.00....	248 27
Total .....	\$8,178 19

## SCHEDULE C.

Disbursements for instruction in English Language and for facilities for such instruction, during the year ended June 30, 1900.

Name of instructors	Subjects taught for which paid from "Morrill Fund"	Amount
I. For salaries of instructors:		
A. C. Barrows, Professor.....	English Literature .....	\$450
J. R. Taylor, Asst. Professor....	" " .....	220
J. V. Denney, Professor.....	English and Rhetoric.....	225
H. C. Allen, Asst. Professor....	" " " .....	115
W. L. Graves, Asst. Professor...	" " " .....	100
Geo. H. McKnight, Assistant....	" " " .....	90
J. B. Parker, Assistant.....	" " " .....	30
II. For facilities, as follows:		
Text-books and reference books.....		\$28 99
Total .....		\$1,258 99



## SCHEDULE D.

Disbursements for instruction in Mathematical Science and for facilities for such instruction during the year ended June 30, 1900.

Name of instructors	Subjects taught for which paid from "Morrill Fund"	Amount
I. For salaries of instructors:		
R. D. Bohannon, Professor.....	Mathematics .....	\$450
G. W. McCoard, Asst. Professor	" .....	320
C. L. Arnold, Asst. Professor...	" .....	200
K. D. Swartzel, Asst. Professor.	" .....	200
E. L. Ball, Fellow.....	" .....	60
J. W. Young, Assistant.....	" .....	60
H. C. Lord, Professor.....	Astronomy .....	320
II. For facilities, as follows:		
Text-books and reference books.....		\$11 93
Department of Astronomy.		
Spectroscope, \$200.00; electrical supplies, \$11.89; electrical apparatus, \$89.00; gas engine, \$150.00.....		\$450 89
Total .....		\$2,472 82

## SCHEDULE E.

Disbursements for instruction in Natural or Physical Science and for facilities for such instruction during the year ended June 30, 1900.

Name of instructors	Subjects taught for which paid from "Morrill Fund"	Amount
I. For salaries of instructors:		
A. M. Bleile, Professor.....	Anatomy and Physiology....	\$450
C. B. Morrey, Asst. Professor...	" " " ".....	200
M. Dresbach, Assistant.....	" " " ".....	60
W. A. Kellerman, Professor.....	Botany .....	450
J. H. Schaffner, Assistant.....	" .....	210
S. W. Collett, Assistant.....	" .....	50
Alice Dufour, Assistant.....	" .....	25
W. McPherson, Professor.....	Chemistry .....	450
S. A. Norton, Lecturer.....	" .....	240
W. E. Henderson, Asst. Professor..	" .....	200
D. A. Kohr, Assistant.....	" .....	120
F. O. Clements, Assistant.....	" .....	45
H. C. Gore, Assistant.....	" .....	30
Edward Orton, Professor.....	Geology .....	150
C. S. Prosser, Asso. Professor..	" .....	300
J. A. Bownocker, Asso. Professor..	" .....	200
B. F. Thomas, Professor.....	Physics .....	225
J. E. Boyd, Asst. Professor.....	" .....	120
F. E. Kester, Assistant.....	" .....	80
H. W. Brown, Assistant.....	" .....	25
H. Osborn, Professor.....	Zoology and Entomology....	225
J. S. Hine, Asst. Professor.....	Entomology .....	85
F. L. Landacre, Asst. Professor..	Zoology .....	85
II. For facilities, as follows:		
Text-books and reference books.....		\$298 98
Department of Anatomy and Physiology.		
Model of brain, \$10.00; supplies, \$6.46; microscopes, \$161.20....		177 60
Department of Botany.		
Collections, \$177.05; herbarium, \$145.36; tools and hardware, \$41.17; herbarium paper, \$63.20; mica, \$7.88; labels, \$29.70; camera and plates, \$181.90; pots, \$17.10.....		664 26
Department of Chemistry.		
Apparatus, \$488.17; chemicals, \$124.31; balances, \$52.75; chemical supplies, \$969.13; platinum, \$149.89; plates, \$35.74; crucibles, \$54.77 .....		1,874 78
Department of Geology.		
Tree ferns, \$10.95; specimen stone, \$5.00.....		15 95
Department of Physics.		
Balances, \$5.10; apparatus, \$147.47; supplies, \$31.80.....		184 37

## SCHEDULE E — Concluded.

	Amount.
Department of Zoology and Entomology.	
Charts, \$42.00; net, \$9.50; bird skins, \$58.30; mounting specimens, \$177.25; specimens, \$5.00; microscopes, \$253.33; dissecting material, \$15.95; drugs, \$18.07; collections, \$40.00.....	619 40
Total .....	\$7,860 40

## SCHEDULE F.

Disbursements for instruction in Economic Science and for facilities for such instruction, during the year ended June 30, 1900.

Name of instructors	Subjects taught for which paid from "Morrill Fund"	Amount
I. For salaries of instructors:		
Geo. W. Knight, Professor.....	History and Political Science..	\$500
J. B. Sanborn, Assistant.....	" " " "	140
F. C. Clark, Asso. Professor.....	Economics and Sociology....	320
Grace L. Pitts, Assistant.....	" " " "	30
II. For facilities, as follows:		
Text-books and reference books.....		\$136 99
Total .....		\$1,126 99







# OHIO STATE UNIVERSITY

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## THIRTIETH ANNUAL REPORT

OF THE

## BOARD OF TRUSTEES

TO THE

## GOVERNOR OF OHIO

FOR THE

Year Ending June 30, 1900.

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### PART II.

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The State has no material resources at all comparable with its citizens,  
and no hope of perpetuity except in the intelligence  
and integrity of its people.

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COLUMBUS  
PUBLISHED BY THE UNIVERSITY  
JUNE, 1900.



# CALENDAR

1900

JULY							AUGUST							SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	...	...	...	1	2	3	4	...	...	...	...	...	...	1
8	9	10	11	12	13	14	5	6	7	8	9	10	11	2	3	4	5	6	7	8
15	16	17	18	19	20	21	12	13	14	15	16	17	18	9	10	11	12	13	14	15
22	23	24	25	26	27	28	19	20	21	22	23	24	25	16	17	18	19	20	21	22
29	30	31	...	...	...	...	26	27	28	29	30	31	...	23 30	24	25	26	27	28	29
OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
...	1	2	3	4	5	6	...	...	...	...	1	2	3	...	...	...	...	...	...	1
7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8
14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15
21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22
28	29	30	31	...	...	...	25	26	27	28	29	30	...	23 30	24 31	25	26	27	28	29

1901

JANUARY							FEBRUARY							MARCH						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
...	...	1	2	3	4	5	...	...	...	...	...	1	2	...	...	...	...	...	1	2
6	7	8	9	10	11	12	3	4	5	6	7	8	9	3	4	5	6	7	8	9
13	14	15	16	17	18	19	10	11	12	13	14	15	16	10	11	12	13	14	15	16
20	21	22	23	24	25	26	17	18	19	20	21	22	23	17	18	19	20	21	22	23
27	28	29	30	31	...	...	24	25	26	27	28	...	...	24 31	25	26	27	28	29	30
APRIL							MAY							JUNE						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
...	1	2	3	4	5	6	...	...	...	1	2	3	4	...	...	...	...	...	...	1
7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8
14	15	16	17	18	19	20	12	13	14	15	16	17	18	9	10	11	12	13	14	15
21	22	23	24	25	26	27	19	20	21	22	23	24	25	16	17	18	19	20	21	22
28	29	30	...	...	...	...	26	27	28	29	30	31	...	23 30	24	25	26	27	28	29





# DAYS AND DATES

## 1900

Entrance Examinations (8 A. M.)	Monday,	September 17.
Registration Day	Tuesday,	September 18.
Lectures and Class-work begin (all Colleges)	Wednesday,	September 19.
Annual Address by the President (11 A. M.)	Friday,	September 21.
Meeting of Trustees	Wednesday,	September 26.
Thanksgiving Recess	{ Thursday,	November 29.
	{ Friday,	November 30.
Latest date for announcing Subjects of Theses	Saturday,	December 15.
First Term ends	Wednesday,	December 19.

Christmas Vacation.

## 1901

Second Term begins—Registration Day	Wednesday,	January 2.
First Semester (College of Arts, Philosophy and Science, and College of Law) ends	Friday,	February 8.
Second Semester (College of Arts, Philosophy and Science, and College of Law) begins—Registration Day	Monday,	February 11.
University Day	Friday,	February 22.
Second Term ends	Friday,	March 29.
Spring Recess—From 4 o'clock P. M.	Friday,	March 29.
to 8 o'clock A. M.	Wednesday,	April 3.
Third Term begins—Registration Day	Wednesday,	April 3.
Meeting of Trustees	Wednesday,	April 3.
High School Day	Friday,	May 17.
Field Day—Athletic Association	Saturday,	May 18.
Senior Vacation begins	Saturday,	May 25.
Competitive Drill—Cadet Battalion	Saturday,	May 25.
Memorial Day	Thursday,	May 30.
Final Examinations (all Colleges)	{ Monday,	June 10.
	{ to	
	{ Friday,	June 14.
Baccalaureate Sermon	Sunday,	June 16.
Entrance Examinations (8 A. M.)	{ Monday,	June 17.
	{ Tuesday,	June 18.
Class Day	Monday,	June 17.
Meeting of Trustees	Tuesday,	June 18.
Alumni Day	Tuesday,	June 18.
COMMENCEMENT	Wednesday,	June 19.

Summer Vacation.

Entrance Examinations (8 A. M.)	Monday,	September 16.
Registration Day	Tuesday,	September 17.
Lectures and Class-work begin (all Colleges)	Wednesday,	September 18.
Annual Address by the President (11 A. M.)	Friday,	September 20.
Meeting of Trustees	Wednesday,	September 25.

# BOARD OF TRUSTEES

1899-1900

		Term Expires.
JOHN T. MACK.....	Sandusky .....	May 13, 1901.
LUCIUS B. WING .....	Newark .....	" 1902.
THOMAS J. GODFREY .....	Celina .....	" 1903.
J. McLAIN SMITH.....	Dayton .....	" 1904.
PAUL JONES.....	Columbus .....	" 1905.
OSCAR T. CORSON .....	Columbus .....	" 1906.
DAVID M. MASSIE.....	Chillicothe .....	" 1907.

## OFFICERS OF THE BOARD

J. McLAIN SMITH. . . . .	President.
OSCAR T. CORSON .....	Vice President.
ALEXIS COPE .....	Secretary.
LOUIS F. KIESEWETTER. ....	Treasurer.

## COMMITTEES OF THE BOARD

EXECUTIVE	FARM	FINANCE
L. B. WING	J. McLAIN SMITH	D. M. MASSIE
T. J. GODFREY	L. B. WING	J. McLAIN SMITH
PAUL JONES	JOHN T. MACK	PAUL JONES

## FACULTY AND COURSES OF STUDY

THOMAS J. GODFREY    OSCAR T. CORSON    JOHN T. MACK

# THE FACULTIES





# Members of the Faculties, and Other Instructors

1899-1900

WILLIAM OXLEY THOMPSON.....University Grounds

President

A. B., Muskingum College, 1878; A. M., *ibid.*, 1881; D. D., *ibid.*, 1891; LL. D., Western University of Pennsylvania, 1897. Licensed by the Presbytery of Zanesville, Dresden, Ohio, April, 1881; Ordained by Presbytery of Fort Dodge, Iowa, July, 1882; Pastor Odebolt, Iowa, 1882-85; Pastor Longmont, Colorado, 1885-91; President Longmont College, 1885-89; President Miami University, 1891-99; present position since 1899.

\*EDWARD ORTON.....100 Twentieth street

Professor of Geology, and State Geologist

A. B., Hamilton, 1848; Ph. D., Hamilton, 1875; LL. D., Ohio State University, 1881. Student of Theology, Lane Seminary, 1849; Student at Lawrence Scientific School, Harvard University, 1852; Student, Andover, 1854; Professor of Natural Science, State Normal School, Albany, N. Y., 1856-'59; Principal, Chester Academy, N. Y., 1859-'65; Professor of Natural History, Antioch, 1865-'72; President of Antioch, 1872-'73; President of the Ohio State University, 1873-'81; State Geologist, 1869; present position since 1881.

WILLIAM HENRY SCOTT.....131 Fifteenth avenue

Professor of Philosophy

A. B., Ohio University, 1862; M. A., Ohio University, 1865; LL. D., Ohio University and Ohio Wesleyan, 1884. Superintendent of Public Schools, Athens, Ohio, 1862-'64; Principal of the Preparatory Department of Ohio University, 1864-'65; Pastor of Main Street (now Trinity) M. E. Church, Chillicothe, Ohio, 1865-'67; Pastor of Town Street (now First) M. E. Church, Columbus, Ohio, 1867-'69; Professor of Greek, Ohio University, 1869-'72; President and Professor of Philosophy, Ohio University, 1872-'83; President and Professor of Philosophy, Ohio State University, 1883-'95; present position since 1895.

SIDNEY AUGUSTUS NORTON.....363 East Town street

Emeritus Professor of Chemistry

A. B., Union, 1856; A. M., Union, 1859; M. D., Miami Medical College, 1867; Ph. D., Kenyon, 1878; LL. D., Wooster, 1881. LL. D., Union, 1899. Student at Bonn, Leipsic, Heidelberg; Teacher, Poughkeepsie Collegiate Academy, 1856; Tutor, Union, 1857; Principal Hamilton (Ohio) High School, 1858; Instructor of Natural Science, Cleveland High Schools, 1859-'66; Teacher of Natural Science, Mt. Auburn, 1866-'72; Professor of Chemistry, Miami, 1867-'72; Acting Professor of Physics, Union, 1872-'73; Professor of Chemistry, Ohio State University, 1873-'95; Lecturer in Chemistry, 1895-'99; Present position since 1899.

STILLMAN W. ROBINSON.....1353 Highland street

Emeritus Professor of Mechanical Engineering

C. E., University of Michigan, 1863; D. Sc., Ohio State University, 1896; Assistant Engineer U. S. Lake Survey, 1863-'66; Instructor in Engineering, University of Michigan, 1866-'67; Assistant Professor Mining Engineering and Geology, University of Michigan, 1867-'70; Professor Mechanical Engineering and Physics, University of Illinois, 1870-'78; Professor Mechanical Engineering and Physics, Ohio State University, 1878-'81; Professor Mechanical Engineering, Ohio State University, 1881-'95. Resigned in 1895. Consulting Mechanical Engineer and Inventor for Wire Grip and McKay Shoe Machinery Companies, 1884-'98; Re-elected Emeritus Professor of Mechanical Engineering, Ohio State University, 1899. State Inspector of Railroads and Bridges, 1880-84. Consulting Engineer Santa Fe R. R., 1887-'90, Consulting Engineer Lick Telescope and Mountings, 1887.

\*Died, October 16, 1899.

**NATHANIEL WRIGHT LORD**.....338 West Eighth avenue

Professor of Mineralogy and Metallurgy, Director of the School of Mines, and Dean  
of the College of Engineering

E. M., Columbia, 1876; Assistant Engineer, Cincinnati, 1877; Engineer and Metallurgist Monte Grande Gold Mining Co, Nicaragua, 1878; Assistant School of Mines, O. S. U., 1879; Chemist Ohio Geological Survey, 1880-'88; Assistant Professor of Mining and Metallurgy, O. S. U., 1880-'87; Professor Mining and Metallurgy, O. S. U., 1887-'91; Professor Metallurgy and Mineralogy, O. S. U., 1896; Chemist State Board of Agriculture, 1881-'99; Chemist State Board of Health, 1896-'98; present position since 1896.

**SAMUEL CARROLL DERBY**.....93 Fifteenth avenue

Professor of Latin

A. B., Harvard, 1866; A. M., Harvard, 1869 (in course), 1877 (by examination). Principal of Schools, Ilion, N. Y., 1866-'67; Assistant in Dixwell's Classical School, Boston, 1867-'70; Professor of Language, Antioch, 1870-'81; President, Antioch, 1877-'81; Student, Latin and History, Harvard, 1876-'77; Student, Latin and History, Johns Hopkins, 1880-'81; Student, Latin, Harvard, 1892-'93; present position since 1881.

**WILLIAM RANE LAZENBY**.....348 West Eighth avenue

Professor of Horticulture and Forestry

B. Agr., Cornell, 1874; M. Agr., Iowa Agricultural College, 1887. Instructor Horticulture and Botany, Cornell, 1874-'77; Assistant Professor of Horticulture, Cornell, 1877-'81; Lecturer, N. Y. State Grange, 1874-'81; Director Ohio U. S. Experiment Station, 1882-'87; Professor of Botany and Horticulture, Ohio State University, 1881-'92; present position since 1892.

**JOSIAH RENICK SMITH**.....950 Madison avenue

Professor of the Greek Language and Literature

A. B., Amherst, 1871; A. M., Amherst, 1883; Principal, Mound Street School, Columbus, 1871-'73; Teacher, Columbus High School, 1873-'76; Assistant Professor of Ancient Languages, Ohio State University, 1876-'81; Student at Leipsic, 1881-'83; present position since 1883.

**HENRY ADAM WEBER**.....1342 Forsythe avenue

Professor of Agricultural Chemistry

Graduate of Polytechnic School, Kaiserslautern, 1866; Student, Chemistry under Von Liebig and Reischauer, and of Mineralogy under Von Kobell, Munich, 1866-'68; Ph. D., Ohio State University, 1879; Ohio Geological Survey, Chemical Department, 1869-'74; Professor of General Chemistry and Mineralogy, Illinois State University, 1874-'82; Chemist to State Board of Agriculture, Illinois, 1874-'82; Chemist to State Board of Health, Illinois, 1874-'82; State Chemist and Chief Chemist to Ohio State Dairy and Food Commissioner, 1885-'97; present position since 1884.

**BENJAMIN FRANKLIN THOMAS**.....University Grounds

Professor of Physics, and State Sealer of Weights and Measures

B. Sc., Ripon, 1874; M. Sc. Ripon, 1877; Ph. D., Stevens Institute, 1880. Instructor in Mathematics and Physics, Carleton College, Northfield, Minnesota, 1876-'79; Professor of Physics, University of Missouri, 1880-'85; Member of the Board of Examiners at the International Electrical Exhibition at Philadelphia, 1884; Member of the Jury of Awards, Department of Electricity, at the World's Columbian Exposition, Chicago, 1893; present position since 1885.

**GEORGE WELLS KNIGHT**.....University Grounds

Professor of American History and Political Science and of Constitutional Law

A. B., University of Michigan, 1878; A. M., University of Michigan, 1883; Ph. D., University of Michigan, 1884; Student, Law, University of Michigan, 1878-'79; Principal of High School, Lansing, Michigan, 1879-'81; Student, History and Political Science, University of Michigan, 1882-'84; Instructor in History, Ann Arbor High School, 1883-'85; Professor of History and English Literature, Ohio State University, 1885-'87; Professor of History and Political Science, Ohio State University, 1887-'98; Student at Universities of Halle, Berlin, and Freiburg, 1889-'90; present position since 1898.

- ROSSER DANIEL BOHANNAN**.....Sixteenth and Indianola avenues  
 Professor of Mathematics
- B. Sc., C. E., E. M., University of Virginia, 1876; Student of Mathematics and Physics, Cambridge, England, 1880-'82; Göttingen, 1882-'83; Teacher of Mathematics and Latin, Suffolk Collegiate Institute, Virginia, 1876-'77; Teacher of Mathematics and English, New York Latin School, New York City, 1877-'78; Professor of Mathematics and Natural Science, Emory and Henry College, 1878-'80; Acting Professor of Mathematics, University of Virginia, 1883-'84; Assistant in Mathematics and Physics, University of Virginia, 1884-'87; Professor of Mathematics and Astronomy, Ohio State University, 1887-'95; present position since 1895.
- C. NEWTON BROWN**.....1343 Forsythe avenue  
 Professor of Civil Engineering
- C. E., Miami, 1886; Resident Engineer of the Iron-ton Extension of the Pittsburg, Cincinnati, Chicago & St. Louis R. R., 1881; Ohio Geological Survey, 1882; Assistant in Mathematics and Civil Engineering, Ohio State University, 1883-'85; Associate Professor of Civil Engineering, Ohio State University, 1885-'90; present position since 1890.
- ERNST AUGUST EGGERS**.....190 West Eleventh avenue, University Grounds  
 Professor of Germanic Languages and Literatures
- Student in Gymnasium at Hanover, at Michigan State Normal School, the Sorbonne, College de France; Instructor in German in the High Schools of Michigan for ten years; Assistant in German, Ohio State University, 1886-'88; Assistant Professor of German, same institution, 1888-'90; present position since 1890.
- ALBERT MARTIN BLEILE**.....218 King avenue  
 Professor of Anatomy and Physiology
- M. D., Starling Medical College, 1876; Student, Vienna, Chemistry and Physiology, 1876-'77; Student, Physiology, Leipsic, 1877-'78; Student Anatomy and Histology, Paris, 1878-'79; Lecturer on Experimental Physiology, Starling Medical College, 1879; Professor of Physiology, Starling Medical College, 1884; present position since 1891.
- WILLIAM ASHBROOK KELLERMAN**.....175 Eleventh avenue  
 Professor of Botany
- B. Sc., Cornell, 1874; Ph. D., Zurich, 1881; Professor of Natural Science, Wisconsin State Normal School, 1874-'79; Professor of Botany and Horticulture, Kentucky State College, 1881-'82; Professor of Botany and Zoology, Kansas State Agricultural College, 1883-'87; Professor of Botany, Kansas State Agricultural College, 1888-'91; Botanist, Kansas State Board of Agriculture, 1883-'91; Ohio Geological Survey (Botany) 1892-'93; Founder and Editor of the Journal of Mycology, 1885-'89; present position since 1891.
- THOMAS FORSYTH HUNT**.....188 West Tenth avenue  
 Professor of Agriculture, and Dean of the College of Agriculture and Domestic Science
- B. Sc., University of Illinois, 1884; M. Sc., University of Illinois, 1892; Assistant to Illinois State Entomologist, 1885-'86; Assistant in Agriculture, University of Illinois, 1886-'88; Assistant Agriculturalist, Illinois Experiment Station, 1888-'91; Professor of Agriculture, Pennsylvania State College, 1891-'92; present position since 1892.
- GEORGE BEECHER KAUFFMAN**.....University Grounds  
 Professor of Pharmacy, and Dean of the College of Pharmacy
- B. Sc., Ohio Wesleyan University, 1877; Pharm. D., Scio, 1894; Associate Professor of Pharmacy, Ohio State University, to 1894; present position since 1894.
- BENJAMIN LESTER BOWMAN**.....775 East Broad street  
 Professor of Romance Languages and Literature
- A. B., University of Rochester, 1881; Ph. D., Johns Hopkins University, 1888. Post-graduate work, University of Rochester, 1881-'82; Professor of Languages, New Windsor College, Maryland, 1882-'83; Graduate Student and Assistant in French, Johns Hopkins University, 1883-'86, and 1887-'88; Student at the University of Paris, Bonn, Rome and Madrid, 1885, and 1886-'87; Professor of French and Latin, Bowdoin College, 1888-'89; Acting Associate Professor of French Language and Literature, Ohio State University, 1889-'90; Associate Professor of Romance Languages and Literatures, Ohio State University, 1890-'94; present position since 1894.



## JOSEPH VILLIERS DENNEY.....230 West Tenth avenue

Professor of Rhetoric and the English Language, and Secretary of the University Faculty

A. B., University of Michigan, 1885. Journalist, 1885-'88; Principal of the Aurora (Illinois) High School, 1888-'90; Instructor in English and Graduate Student, University of Michigan, 1890-'91; Associate Professor of Rhetoric, Ohio State University, 1891-'94; present position since 1894.

## ALLEN CAMPBELL BARROWS.....85 West Tenth avenue

Professor of English Literature, and Dean of the College of Arts, Philosophy and Science

A. B., Western Reserve, 1861; A. M., Western Reserve, 1866; D. D., Iowa College, 1889. Teacher, Latin and Greek, Phillips Academy, 1865-'66; Professor of Physics, Western Reserve, 1866-'70; Professor of Latin and English Literature, Western Reserve, 1870-'71; Professor of English Literature and History, Iowa Agricultural College, 1887-'94; present position since 1894.

## EDWARD ORTON, JR.....The Normandie

Director of the Department of Clay-Working and Ceramics

E. M., Ohio State University, 1884. Assistant on Ohio Geological Survey, 1882; Chemist for Columbus and Hocking Coal and Iron Company, 1885-'86; Superintendent of Blast Furnace at New Straitsville, O., 1887-'88; Superintendent of Victoria Furnace, Goshen Bridge, Va., 1888; Steel Worker, Homestead Steel Works, Homestead, Pa., 1889; Superintendent Ohio Paving Company's Factory, Columbus, Ohio, 1890-'92; Special Assistant on Clays, Ohio Geological Survey, 1892; Superintendent Acme Vitrified Brick Co., Louisville, Kentucky, 1893; State Geologist of Ohio, 1899; present position since May, 1894.

## WILLIAM FORREST HUNTER.....1032 Bryden Road; 18 Board of Trade

Dean of the College of Law, Professor of the Law of Sales, Bailments, Evidence, Mortgages, Suretyship, Construction of Contracts, Law of Corporations, Judge of Moot Courts

Admitted to the Bar in 1861; Student, University of Michigan Law School; practicing attorney since 1866; Dean of the Law School, Ohio State University, 1892-'96; present position since 1896.

## DAVID FRANKLIN PUGH.....1320 Highland street; Board of Trade

Professor of Equity Jurisprudence, Law of Real Property and Municipal Corporations

Member of West Virginia Constitutional Convention, 1872; Member of Legislature, West Virginia, 1874-'75; Prosecuting Attorney, Tyler County, West Virginia, 1870-'80; Common Pleas Judge, Franklin County, Ohio, 1887-'99; present position since 1891.

## EMILIUS OVIATT RANDALL.....1025 Oak street; Supreme Court Room

Professor of Agency, Commercial Law and Partnership

Ph. B., Cornell, 1874; LL. B., LL. M., Ohio State University, 1892. Admitted to practice, 1890; Secretary Ohio State Historical Society; Reporter Supreme Court of Ohio. Present position since 1893.

## EDGAR BENTON KINKEAD.....Wyandotte avenue; Board of Trade

Professor of Pleading and Probate Practice, Torts, Criminal Law, Ethics, Trial Practice and Law of Contracts (Engineers)

Assistant State Law Librarian, 1887-1894; Special Counsel for Attorney-General of Ohio, 1897-1900. Present position since 1895.

## WILLIAM HERBERT PAGE.....1068 Franklin avenue; 27 Board of Trade

Professor of Elementary Law, Contracts and Wills

B. A., Yale, 1889; LL. B., Ohio State University, 1892; LL. M., same institution, 1894. Instructor in Central High School, Columbus, Ohio, 1889-'96. Present position since September, 1896.

## WILLIAM THOMAS MAGRUDER.....191 King avenue

Professor of Mechanical Engineering

M. E., Stevens Institute of Technology, 1881. Practical Experience in Machine Design and Shop Practice, Taunton, Mass., 1881-'86. Student in Chemistry and Mathematics, etc., Johns Hopkins University, 1886-'87; Professor of Mechanical Engineering (practical and theoretical) Vanderbilt University, 1887-'96; present position since September, 1896.

- J. P. GORDY.....The Normandie  
Professor of Education
- Ph. D., University of Leipsic, 1884; LL. D., Western University of Pennsylvania, 1897. Student in Philosophy at Leipsic, 1883-'84; Student in Philosophy at Johns Hopkins University, 1886; Assistant in Revision of Webster's Dictionary, 1884-'85; Professor of Philosophy and Pedagogy, Ohio University, Athens, 1886-'96; present position since September, 1896.
- WILLIAM McPHERSON.....97 Hamilton avenue  
Professor of Chemistry
- B. Sc., Ohio State University, 1887; M. Sc., Ohio State University, 1890; D. Sc., Ohio State University, 1895; Ph. D., University of Chicago, 1899; Instructor in Chemistry and Physics, Toledo High School, 1887-'89; Instructor in Chemistry and Latin, Toledo High School and Manual Training School, 1889-'92; Assistant in Chemistry, Ohio State University, 1892-'93; Assistant Professor in Chemistry, Ohio State University, 1893-'95; Associate Professor, General Chemistry, Ohio State University, 1895-'97; present position since 1897.
- JOSEPH NELSON BRADFORD.....54 West Tenth avenue  
Professor of Drawing
- M. E., Ohio State University, 1883. Draftsman, Ohio Geological Survey, 1882; Machinist and Draftsman, Pittsburg, Cincinnati & St. Louis Railroad, 1883-85; Assistant in Mechanical Engineering and Drawing, Ohio State University, 1885-'90; Assistant Professor of Drawing, Ohio State University, 1890-'93; Associate Professor of Drawing, Ohio State University, 1893-'99. Present position since 1899.
- DAVID STUART WHITE.....West Fifth avenue  
Professor of Veterinary Medicine, and Dean of the College of Veterinary Medicine
- D. V. S., Ohio State University, 1890. Student, Royal Veterinary Schools of Hanover, Berlin, 1890-'91; at Imperial Veterinary Institute of Vienna, 1892; Royal Veterinary College of Dresden, 1893; Assistant in Veterinary Medicine, Ohio State University, 1893-'95. Present Position since 1895.
- HERBERT OSBORN.....485 King avenue  
Professor of Zoology and Entomology
- B. Sc., Iowa Agricultural College, 1879. M. Sc., same institution, 1880. Student of Entomology at Museum Comparative Zoology (Cambridge, Mass.) 1881-'82; College of Physicians and Surgeons, Des Moines, 1884-85 (Anatomy and Physiology); Zoological Station Naples (Smithsonian table), 1894-'95. Assistant in Zoology and Entomology, Iowa Agricultural College, 1880-'83; Assistant Professor of Zoology and Entomology, Iowa Agricultural College, 1884-'85. Professor of Zoology and Entomology, Iowa Agricultural College, 1886-'98; Special Agent Division of Entomology, U. S. Department of Agriculture, 1885-'94; Entomologist, Iowa Experiment Station, 1890-'98; State Entomologist, Iowa, 1898. Present position since 1898.
- FRANK EDWIN SANBORN.....380 West Eighth avenue  
Director of the Department of Industrial Arts
- S. B., in Mechanical Engineering, Massachusetts Institute of Technology, 1889. Assistant in Drawing, Massachusetts Institute of Technology, 1889-'90; Teacher in Manual High School Department, Pratt Institute, 1890-'91; Walker Special Instructor, Tufts College, 1891-'94; Instructor in Mechanical Department, Tufts College, 1894-'98. Present position since September, 1898.
- HENRY CURWEN LORD.....401 West Sixth avenue  
Director of the Emerson McMillen Observatory, and Associate Professor of Astronomy
- B. Sc., University of Wisconsin, 1889. Assistant in Washburn Observatory, University of Wisconsin; with Thompson-Houston Electric Company, 1889; Assistant in Mathematics and Astronomy, Ohio State University, 1891-'94; elected Fellow, Royal Astronomical Society, 1897; Present position since 1895.

CHRISTOPHER P. LINHART.....Gymnasium; The Vendome  
Director of the Gymnasium, and Instructor in Physical Education

M. D., Western Reserve University, Cleveland, 1882. Post-graduate student, same institution, 1882-'83. Student and Instructor, Dr. Anderson's Normal School of Physical Education, 1886; student in Harvard Summer School, 1887; House Physician and Surgeon, Cleveland City Hospital, 1883-'85; Assistant Demonstrator of Anatomy, Western Reserve University, 1885-'86, and Assistant Visiting Physician Charity Hospital, Cleveland, 1886; Director of Y. M. C. A. Gymnasium, Orange, N. J., 1886 and 1888; Instructor in Physiology and Physical Education, Newark, (N. J.), Academy, 1887 and 1890, and Director of Physical Education, Newark, N. J., Public Schools, 1888-'90; Medical Director Manhattan Athletic Club, 1891 and 1892; Instructor in Physiology and Physical Education, Union College, 1892-'97. Present position since 1897.

JAMES MADISON BURNS.....The Columbus Club  
Professor of Military Science and Tactics

Graduate of the Beaver Academy, Pennsylvania. Entered the volunteer service 1861; discharged July 17th, 1865. Appointed second lieutenant 17 infantry U. S. A.; promoted to first lieutenant and captain same regiment; served thirty-one years in that organization, the greater portion of the time on the extreme frontier. Promoted to major and retired on account of disability incurred in the line of duty, May 22, 1899. Appointed to present position October 1st, 1899.

FRANK ARNOLD RAY.....137 King avenue  
Associate Professor of Mine Engineering

E. M., Ohio State University, 1887. Superintendent building construction, Elah Terral & Co., 1887-'88; Assistant Mining Engineer C. & H. C. & I. Co, 1888-'89; Chief Engineer C. & H. C. & I. Co, 1889-'92; Chief Engineer Congo Coal Mining Co., 1892-'95; Assistant Professor of Mine Engineering, O. S. U., 1895-'97; present position since 1897.

FRANCIS CARY CALDWELL.....55 Cleveland avenue  
Associate Professor of Electrical Engineering

A. B., Cornell, 1890; M. E. Cornell, 1891. With Thompson-Huston Electric Co., Lynn Mass., 1891-'92; Student at the National Polytechnic, Zurich, 1892-'93; Assistant Professor of Electrical Engineering, Ohio State University, 1893-'97. Present position since 1897.

PERLA G. BOWMAN.....The Dennison  
Associate Professor of Domestic Science; in charge of the Department of Domestic Economy

Graduate of Toledo High School; Graduate of Toledo Manual Training School; Student at Wells College; Instructor in Toledo Manual Training School; Director of Domestic Science, Toledo Manual Training School; Special Student at Pratt Institute (Brooklyn), and the University of Michigan. Present position since September, 1897.

FREDERICK CONVERSE CLARK.....1634 Neil avenue  
Associate Professor of Economics and Sociology

A. B., University of Michigan, 1887; A. M., University of Michigan, 1888; Ph. D., University of Michigan, 1891. Student at Halle and Berlin, 1893-'95; Instructor in History and Economics, Ann Arbor High School, 1888-'92; Assistant Professor of Political Economy, Stanford University, 1892-'93; Assistant Professor of Economics and Sociology, Ohio State University, 1895-'98. Present position since 1898.

WILBUR HENRY SIEBERT.....1332 Highland street,  
Associate Professor of European History

A. B., Ohio State University, 1888; A. B., (with honorable mention) Harvard University, 1889; M. A., Harvard, 1890. Student, Freiburg and Berlin, 1890-'91; Student, Harvard, 1895; Assistant in History and Political Science, Ohio State University, 1891-'93; Assistant Professor of History, Ohio State University, 1893-'95, 1897-'98; Student, Harvard University, 1895-'97. Present position since 1898.



- OLIVE B. JONES.....53 Eleventh avenue  
 Librarian  
 Assistant Librarian, 1887. Present position since 1898.
- EMBURY ASBURY HITCHCOCK.....380 West Eighth avenue  
 Associate Professor of Experimental Engineering  
 M. E., Cornell, 1890. Straightline Engine Company, Syracuse, N. Y., 1889; Corliss Steam Engine Company, Providence, R. I., 1890-'93; Assistant in Mechanical Engineering, Ohio State University, 1893-'95; Assistant Professor of Mechanical Engineering in charge of the Department, 1895-'96; Assistant Professor, Experimental Engineering, Ohio State University, 1896-'97. Present position since 1897.
- WILLIAM DAVID GIBBS.....The Dennison  
 Associate Professor of Agriculture  
 B. Sc., University of Illinois, 1893. Fellowship in Agriculture, University of Illinois, 1893-'94; Post-graduate work, University of Illinois and University of Wisconsin, 1895; Expert Assistant in Division of Agricultural Soils of the United States Department of Agriculture, summer of 1895; Teacher of Bacteriology, University of Illinois, fall term, 1893; Assistant in Animal Husbandry, University of Illinois, winter term, 1894; Assistant in Agriculture, Ohio State University, spring and fall terms, 1895; Assistant Professor of Agriculture, 1895-'98. Present position since 1898.
- STELLA ELLIOTT CANFIELD.....1457 Worthington street  
 Associate Director of the Gymnasium  
 Student, University of Nebraska, three years; Chautauqua School of Physical Education, summer of 1897; Assistant in Physical Training, University of Nebraska, two years; Y. M. C. A. classes in Physical Training, Lincoln, Nebraska, one year, and in Aurora, Illinois, one year; Medical Gymnastic Course, Chautauqua School of Physical Education, Summer, 1899; Assistant Director of Gymnasium, 1897-'98. Present position since 1898.
- GEORGE WASHINGTON McCOARD.....325 West Sixth avenue  
 Associate Professor of Mathematics  
 B. A., Bethany, West Virginia, 1873; M. A., Bethany, 1882. Principal of Oakdale Classical Normal Institute, Allegheny County, Pennsylvania, 1873-'74; Private Tutor in Cleveland, Ohio, 1874-'80; Principal of Public Schools, Irving Park, Chicago, 1880-'81; Teacher of Latin and Mathematics, Columbus High School, 1881-'82; Assistant in Mathematics and Latin, Ohio State University, 1882-'87. Assistant Professor of Mathematics, Ohio State University, 1887-'99. Present position since 1899.
- CHARLES WALTER MESLOH.....University Grounds  
 Associate Professor of Germanic Languages and Literatures  
 A. B., Ohio State University, 1889; M. A., Ohio State University, 1895. Student in the University of Chicago, 1894; Student, University of Berlin, 1896-'97; Assistant in German, Ohio State University, 1889-'95. Present position since 1895.
- ARTHUR WINFRED HODGMAN.....164 West Ninth avenue  
 Associate Professor of the Classic Languages  
 A. B., Harvard, 1890; A. M., Harvard, 1893; Ph. D. (Classical Philology) Harvard, 1896. Student in Graduate School, Harvard, Classical Philology, 1892-'96. Instructor in Preparatory Schools, Quincy, Duxbury, Mass., 1890-'92; Assistant in Greek and Latin, Ohio State University, 1896-'97. Assistant Professor of the Classic Languages, Ohio State University, 1897-'99. Present position since September, 1899.
- CHARLES SMITH PROSSER.....1362 Highland street  
 Associate Professor of Historical Geology  
 B. S., Cornell University, 1883; M. S., Cornell University, 1886. Fellow in Natural History, Cornell, 1884-'85; Instructor in Paleontology, Cornell University, 1885-'88; Assistant Paleontologist, U. S. Geological Survey, 1888-'92; Professor of Natural History, Washburn College, Topeka, Kansas, 1892-'94; Assistant Geologist, U. S. Geological Survey, 1893-'94; Professor of Geology, Union College, Schenectady, N. Y., 1894-'99. Assistant Geologist, N. Y. Geological Survey, 1895-'99; Assistant Geologist, University Geological Survey of Kansas, 1896; Chief of Appalachian Division, Maryland Geological Survey since 1898. Present position since 1899.



- JOHN ADAMS BOWNOCKER.....1594 Neil avenue  
Associate Professor of Inorganic Geology  
B. Sc., Ohio State University, 1889; D. Sc., Ohio State University, 1897. Principal of High School, Martins Ferry, 1889-'92; Fellow in Geology, University of Chicago, 1892-'94; Graduate Scholar, Yale University, 1894-'95; Assistant Geological Survey of Ohio, 1892; Assistant Geological Survey of New Jersey, 1893; Assistant in Geology, 1895-'98. Assistant Professor 1898-'99. Present position since 1899.
- JOHN WRIGHT DECKER.....329 West Eighth avenue  
Associate Professor of Dairying  
B. Agr., University of Wisconsin, 1890. Fellow in Agriculture, University of Wisconsin, 1890-'91. Instructor in Dairying University of Wisconsin, 1891-99. Present position since 1899.
- JAMES ELLSWORTH BOYD.....25 Maynard avenue  
Assistant Professor of Physics  
B. Sc., Ohio State University, 1891; M. Sc., Cornell, 1896. Student in Physics and Mathematics, Ohio State University, 1893-'95; Student in Experimental and Theoretical Physics, Cornell, 1895-'96; also Student in Sibley College of Mechanic Arts, Cornell, summer of 1895. Assistant in Physics, Ohio State University, 1891-'95; held scholarship in Physics, Cornell, 1895. Present position since September, 1896.
- JOSEPH RUSSELL TAYLOR.....The Dennison  
Assistant Professor of English Literature  
B. A., Ohio State University, 1887; M. A., Columbia University, 1897. Assistant in Drawing, Ohio State University, 1889-'94; Assistant in Rhetoric, Ohio State University, 1894-'97; University Fellow in Literature, Columbia University, 1896-'97; Assistant Professor of Rhetoric, Ohio State University, 1897-'99; present position since 1899.
- CHRISTOPHER ELIAS SHERMAN.....772 Oak street  
Assistant Professor of Civil Engineering  
C. E., Ohio State University, 1894. Engaged in Civil Engineering in Ohio, Tennessee, Virginia, North Carolina and Arizona for three years during college course. Engaged in railroad, geological and governmental engineering from graduation until September, 1896. Engineer to Park Commission, Springfield, Ohio, and U. S. Assistant Engineer at Tampa, Florida, and Huntsville, Alabama, summer of 1898. U. S. Assistant Engineer on road surveys of Yellowstone National Park, summer of 1899. Assistant in Civil Engineering, Ohio State University, 1896-'97. Present position since 1897.
- WILLIAM LUCIUS GRAVES.....1313 Forsythe avenue  
Assistant Professor of Rhetoric  
B. A., Ohio State University, 1893; M. A., Ohio State University, 1897. Principal High School, Coshocton, 1894-'95; Fellow and Assistant in Rhetoric and English Language, Ohio State University, 1895-'96. Present position since 1896.
- \*CLAIR ALBERT DYE.....169 King avenue  
Assistant Professor of Pharmacy  
G. Ph., Ohio State University, 1891. Post-graduate student in Chemistry and Pharmacy, Ohio State University; Assistant in Chemistry and Pharmacy, 1890-'94; Assistant in Pharmacy, 1894-'98. Present position since 1898.
- THOMAS EWING FRENCH.....1458 Worthington street  
Assistant Professor of Drawing  
M. E., Ohio State University, 1895. Assistant in Drawing Department three years preceding graduation; Draftsman, The Smith-Vaile Company, Dayton, 1888-'90; Instructor in Mechanical Drawing, Y. M. C. A., Dayton, 1888-'91; Chief Draftsman, The Smith-Vaile Company, Dayton, 1891; Assistant in Drawing, 1892-'98. Present position since 1898.
- \*CHARLES WILLIAM FOULK.....Leipzig, Germany  
Assistant Professor of Analytical Chemistry  
B. A., Ohio State University, 1894. Assistant in General Chemistry, 1896-'98. Present position since September, 1898.

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\* In Europe on leave of absence.

CHARLES LINCOLN ARNOLD.....328 West Eighth avenue

Assistant Professor of Mathematics

B. Sc., Ohio State University, 1890; M. Sc., Ohio State University, 1894. Post-graduate Student, University of Chicago and Ohio State University, 1894-'95. Assistant in Mathematics Ohio State University, 1890-'99. Present position since 1899.

KARL DALE SWARTZEL.....57 East Eighth avenue

Assistant Professor of Mathematics

B. Sc., Ohio State University, 1893; M. Sc., Ohio State University, 1894. Fellow and Assistant in Mathematics, Ohio State University, 1894-'95. Assistant in Mathematics, Ohio State University, 1895-'99. Present position since 1899.

CHARLES A. BRUCE.....234 West Tenth avenue

Assistant Professor of the Romance Languages

A. B., Ohio State University, 1895; Student of French, Amherst, Summer School, 1895; Graduate Student, University of Chicago, Summer Quarter, 1896; Student, University of Geneva, Summer School, 1898; Student at the Sorbonne, College de France, and Ecole des Hautes-Etudes, Paris, 1898-'99; Assistant in French, Ohio State University, 1895-'99. Present position since 1899.

JOHN H. SCHAFFNER.....61 West Eleventh avenue

Assistant Professor of Botany

A. B., Baker University, Kansas, 1893. A. M., University of Michigan, 1894; M. S., Baker University, 1896. Student in Botany, Zoology and Geology, University of Michigan, 1893-'95. Student in Botany and Paleo-Botany, University of Chicago, 1896-'97. Assistant in Botany, University of Michigan, 1894-'95. Professor of Natural Sciences, South Dakota University, 1895-'96; Assistant in Botany, Ohio State University, 1898-'99. Present position since 1899.

CHARLES BYRON FREDERICK.....Veterinary Hospital

Assistant in Veterinary Medicine.

V. M. and S., Ontario Veterinary College, 1893. In practice since graduation. Fellow in Veterinary Medicine, 1897-'98; Assistant in Veterinary Medicine, 1898. Present position since 1898.

CORNELIA PORTER SOUTHER.....The Dennison

Assistant Professor of Domestic Art

Graduate of Mary Institute (Washington University), St. Louis, Mo., 1883; Certificated Student at Mary Institute, 1883-'85; Handarbeitslehrerinnen-Seminar des Carola-Vereins, Leipzig, 1896-'97. Investigations in Domestic Art Methods in foreign cities, 1896-'98; Teacher of Sewing, Mrs. Ball's Private School, St. Louis, 1898; Special Student at Pratt Institute, Brooklyn, and Teachers' College, Columbia University, New York. Present position since February, 1899.

CHARLES BRADFIELD MORREY.....86 King avenue

Assistant Professor of Anatomy and Physiology

B. A., Ohio State University, 1890; Post-graduate Student, Ohio State University, 1890-'91; M. D., Starling Medical College, 1896. Assistant in Latin, Ohio State University, 1890-'91; Assistant in Latin and Physiology, 1891-'92; Assistant in Physiology, Ohio State University, 1892-'95; Student in Vienna and Paris, 1897-'99. Present position since 1899.

WILLIAM EDWARDS HENDERSON.....41 West Eleventh avenue

Assistant Professor of Analytical Chemistry

A. B., University of Wooster, 1891; M. A., 1894; Ph. D., Johns Hopkins University, 1897. Graduate Student Johns Hopkins University, 1893-'97. Fellow in Chemistry, Johns Hopkins University, 1896-'97. Professor of Natural Sciences, College of Emporia, Kansas, 1891-'93. Professor of Chemistry, Ohio University, 1897-'99. Present position since 1899.

GEORGE H. MCKNIGHT.....748 Neil avenue

Assistant Professor of Rhetoric and English Language

A. B., Cornell, 1892, Ph. D., Cornell, 1896. Instructor in English at Cornell, 1892-'97; Cornell Traveling fellow in English Philosophy, 1897-'98. Student in Freiburg, 1897-'98. Student in Paris and London, 1898-'99. Present position since 1899.

- WALTER ALEXANDER LANDACRE.....1574 Summit street  
Assistant Professor of Pharmacy  
G. Ph. Ohio State University, 1891. Chemist Braun Sons & Co., 1891-'97. Post-graduate Student Ohio State University, 1897-'99. Present position since 1899.
- HERRICK CLEVELAND ALLEN.....The Dennison  
Assistant Professor of Public Speaking  
Student Union College 1894-'95-'96. LL. B. Cornell University, 1898. Instructor Department of Oratory and Debate, Cornell University, 1898,'99. Present position since 1899.
- WILLIAM FINLEY LAVERY.....North Dormitory  
Assistant in Veterinary Medicine.  
D. V. M., Ohio State University, 1890. Veterinary practitioner, 1892-'96. Present position since 1896.
- JAMES HENRY COLLINS.....57 Lexington avenue; Ruggery Building  
Lecturer on Federal Practice  
In practice for thirty years. Present position since 1891.
- JOHN ALLEN SHAUCK.....95 Winner avenue; Supreme Court Room  
Lecturer on Supreme Court Practice and Special Cases  
B. A., Otterbein University; LL. B., University of Michigan, 1867; A. M., Otterbein University, 1870; LL. D., Otterbein University, 1897. Judge of the Supreme Court of Ohio.
- J. WARREN SMITH.....55 Cleveland avenue  
Lecturer on Meteorology
- WILLIAM ABNER KNIGHT.....206 West Lane avenue  
Assistant in the Industrial Arts and Instructor in Machine Work  
Thirteen years' practical experience in workshops. Present position since 1893.
- HARRIET TOWNSHEND.....53 West Eleventh avenue  
Assistant in Library  
Present position since September, 1895.
- THOMAS KENYON LEWIS.....1293 Dennison avenue  
Assistant in Drawing  
B. Sc., Ohio State University, 1894. Graduate Student, Ohio State University, 1894-'95. Summer of 1897 and summer of 1898 at Cincinnati Art Academy. Present position since graduation.
- FRANCIS LEROY LANDACRE.....1332 Highland street  
Assistant in Zoology  
B. A., Ohio State University, 1895. Student in Chicago University, summer quarters of 1898 and of 1899. Professor of Embryology in Ohio Medical University since 1896. Present position since graduation.
- JAMES STEWART HINE.....26 West Fourth avenue  
Assistant in Entomology  
B. Sc. (H. and F.), Ohio State University, 1893. Superintendent of the N. W. Substation of the Ohio Agricultural Experiment Station, 1893. Assistant in Horticulture, Ohio State University, 1894. Student in Entomology, Cornell, 1895. Assistant in the Division of Entomology of the United States Department of Agriculture, summers of 1897 and 1899. Present position since 1895.



- MAUD DOROTHY JEFFREY.....65 West Eleventh avenue  
Assistant in Library  
B. Ph., Ohio State University, 1895. Student of Library Science, Ohio State University, 1895-'96. Student of Library Science, Amherst, summer of 1897. Present position since September, 1896.
- GERTRUDE STOWELL KELLICOTT.....1332 Highland street  
Assistant in Library  
Student, Ohio State University, 1888-'95. Student of Library Science, Ohio State University, 1895-'96. Student of Library Science, Amherst, summer of 1897. Present position since September, 1896.
- ALBERT EARL VINSON.....134 West Ninth avenue  
Assistant in Agricultural Chemistry  
Instructor in Chemistry, Y. M. C. A., Dayton, Ohio, 1895. Present position since September, 1896.
- FREDERICK EDWARD KESTER.....1473 Neil avenue  
Instructor in Physics  
M. E. (in E. E.), Ohio State University, 1895. M. A., Cornell, 1899. Fellow and Assistant in Physics, Ohio State University, 1895-'97. Assistant in Physics, Ohio State University, 1897-'98, held scholarship in Physics, Cornell, 1898. Present position since 1899.
- FRANK RUHLEN.....North Dormitory  
Assistant in Agriculture  
B. Sc., (Agr.) Ohio State University, 1896.
- LUCY ALLEN.....1490 Neil avenue  
Assistant in Library  
B. A., Ohio State University, 1897. M. A., Ohio State University, 1899. Student in Library Science under Dr. G. E. Wire, summer of 1898 at Ohio State University. Student in Harvard University, summer of 1899. Present position since September, 1898.
- ALBERT V. BLEININGER.....North Dormitory  
Laboratory Assistant, Department of Clay Working and Ceramics  
Present position since 1898.
- EDWARD EVERETT SOMMERMEIR.....1590 Neil avenue  
Assistant in Metallurgy and Mineralogy  
G. Ph., Ohio State University, 1898. Student Laboratory Assistant in Chemistry, 1897-'98. Present position since September, 1898.
- DON CARLOS HUDDLESON.....249 West Lane avenue  
Assistant in Gymnasium  
G. Ph., Ohio State University, 1897. Medical Student, 1897. Summer School of Physical Training Chautauqua, 1898. Present position since 1898.
- BURT BIDWELL HERRICK.....167 Tenth avenue  
Instructor in Cheese Making
- ELISHA SMITH .....  
Assistant in Cheese Making
- JOSEPH HENRY VOSSKUEHLER .....201 West Eleventh avenue  
Assistant in Drawing  
Designer, Gross Lithographing Co., Dayton, Ohio, 1889-'90; Draftsman, The Stilwell-Bierce and Smith-Vaile Co., Dayton, 1890-'96; Finckel & Finckel, Patent Attorneys, Columbus, 1897. Present position since September, 1898.



- CLAUDE B. GUITTARD.....80 McMillen avenue  
 Assistant in Library  
 Student in Ohio State University, 1892-'96, Assistant in Ohio State Library, 1897-'98. Student in Library Science, Washington, D. C., summer of 1899. Present position since November, 1898.
- WILLIAM HENRY RENCK.....910 West Rich street  
 Assistant in Industrial Arts and Foreman of the Carpenter and Pattern Shops.  
 Fifteen years' practical experience in pattern shops and foundries, seven years as foreman. Present position since 1899.
- CHARLES PHILIP CROWE.....971 Highland street  
 Assistant in Industrial Arts and Forge Master.  
 Student, Ohio Business College, Delaware, Ohio; Lebanon Normal School, Lebanon, Ohio; Teacher in Public Schools of Delaware and Union Counties, two years; Forge shop experience, seven years; Manufacturer of Steel Forgings and Springs, six years. Present position since 1899.
- HOMER CHARLES PRICE.....1594 Neil avenue  
 Assistant in Horticulture and Forestry  
 B. Sc. (Agr.), Ohio State University, 1897. M. S. A., Cornell University, 1899; Fellowship in Agriculture, Cornell, 1898-'99. Present position since September, 1899.
- JOHN WESLEY GROVES.....  
 Assistant in Civil Engineering  
 C. E., Ohio State University, 1898. Engineer for the C. & H. C. & I. Co., 1898-'99. Present position since October, 1899.
- FRANCIS MARION HAMILTON.....1355 North High street  
 Assistant in Philosophy and Education.  
 B. A., Indiana University, 1897. Graduate Student in Philosophy and Education, Indiana University, 1897-'98. Assistant in Philosophy, Indiana University, 1897-'98. Assistant Director of Association College, Central Y. M. C. A., Chicago, 1898-'99. Fellow-elect in Psychology in Clark University for 1899-1900. Present position since 1899.
- DELBERT ALONZO CROWNER.....North Dormitory  
 Assistant in Butter Making
- FRED ALAN FISH.....229 West Eleventh avenue  
 Assistant in Electrical Engineering  
 M. E. (in E. E.), Ohio State University, 1898. Fellow and Laboratory Assistant, 1898-'99; present position since 1899.
- JOHN B. SANBORN.....215 West Tenth avenue  
 Assistant in American History  
 B. L., University of Wisconsin, 1896; M. L., University of Wisconsin, 1897; Ph. D., University of Wisconsin, 1899. Graduate Student of Wisconsin, 1896-'99. Graduate Scholar in American History, University of Wisconsin, 1898-'99. Present position since 1899.
- OLIVER V. BRUMLEY.....University Grounds  
 Assistant in Veterinary Medicine  
 Veterinary Surgeon's Certificate, Ohio State University, 1897. Practiced 1897-'98. Present position since 1898.
- SILAS MARTIN.....1269 Dennison avenue  
 Assistant in Drawing  
 Studied Art with J. H. Witt, E. F. Andrews and Homier. Private Teacher in Art for twenty years. Present position since 1899.

- †FRANK ORVILLE CLEMENTS.....  
Assistant in Chemistry
- MELVIN DRESBACH.....236 West Eighth avenue  
Fellow, in Anatomy and Physiology  
B. Sc., Ohio State University; M. Sc., Ohio State University, 1899.
- FREDERICK JAMES HALE.....75 West Third avenue  
Fellow, and Laboratory Assistant in Mechanical Engineering  
M. E., Ohio State University, 1898.
- JOHN BERNARD PARKER.....43 East Ninth avenue  
Fellow, and Assistant in Rhetoric  
B. A., Ohio State University, 1898. Present position since September, 1898.
- EMMA LEANNA BALL.....207 West Eighth avenue  
Fellow, and Assistant in Mathematics  
B. Sc., Ohio State University, 1895; M. Sc., same institution, 1896.
- ALFRED HEBER MCINTIRE.....84 Fifteenth avenue  
Fellow in Industrial Arts  
M. E. (in E. E.), Ohio State University, 1898.
- DONALD ALEXIS KOHR.....1590 Neil avenue  
Fellow, and Laboratory Assistant in Chemistry  
B. Ph., Ohio State University, 1898. Graduate Student in Chemistry and Mathematics, 1898-'99. Laboratory Assistant in Chemistry, 1898-'99.
- JOHN WESLEY YOUNG.....883 East Main street  
Fellow, and Assistant in Mathematics  
B. Ph. Ohio State University, 1899.
- HAROLD WARNER BROWN.....242 King avenue  
Fellow, and Assistant in Physics  
B. Sc., Cornell, 1898. Present position since 1899.
- †HERBERT W. KENNEDY.....164 West Ninth avenue  
Emerson McMillin Fellow
- SAMUEL WILLIAMSON COLLETT.....48 Woodruff avenue W  
Fellow in Botany  
B. Sc., Moore's Hill College, Indiana; M. Sc., Moore's Hill College, 1894; Teacher of Physiology and Chemistry, High School, and Normal College, Glidden, Iowa, 1890-'91; Professor of Natural Science, Taylor University, Upland, Ind., 1893-'96; Professor of Natural Science, Dakota University, Mitchell, South Dakota, 1896-'99.
- HERBERT CHARLES GORE.....185 West Ninth avenue  
Fellow and Laboratory Assistant in Chemistry  
B. S., University of Michigan, 1899.

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† Resigned in January, 1900.

- CHARLES ARTEMUS GRATE.....1610 Highland street  
 Fellow and Laboratory Assistant in Mechanical Engineering  
 M. E., Ohio State University, 1898.
- GRACE L. PITTS.....245 East Gay street  
 Fellow in Economics
- ALICE DUFOUR.....37½ Oak street  
 Fellow and Assistant in Botany  
 Ph. B., Defiance College, 1899. Student in Botanical Department O. S. U., 1898-'99.
- WILLIAM C. MILLS.....91 West Frambes avenue  
 Curator of Archæology  
 B. Sc. (H. and F.), Ohio State University, 1898. Curator and Librarian of the Ohio State-  
 Archæological and Historical Society. Museum and Library, Orton Hall, O. S. U.

## CHANGES, 1900-1901

### WITHDRAWN

Professor John Thomas Martin, Professor James M. Burns, Associate Professor Stella Elliott Canfield, Assistant Professor Herbert James Noyes, Assistant Professor Clair Albert Dye, Assistant Professor Edwin D. Shurter, Lecturer Faxon Franklin Duane Albery, Assistant Clark Wissler, Assistant John Ferguson Cunningham, Assistant George Washington Rightmire, Assistant Joseph K. Vosskuehler, Assistant Fred A. Fish, Assistant John B. Sanborn, Fellow and Laboratory Assistant Horace Judd, Fellow and Laboratory Assistant S. W. Collett, Fellow and Laboratory Assistant Alice Dufour, Fellow and Laboratory Assistant Donald A. Kohr, Fellow and Laboratory Assistant A. V. Bleininger, Fellow and Laboratory Assistant A. H. McIntire, Fellow and Laboratory Assistant C. A. Grate, Fellow and Laboratory Assistant F. J. Hale, Fellow and Assistant Benjamin Maag, Fellow and Assistant J. W. Young, Fellow and Assistant J. B. Parker, Fellow Edward L. Fulmer, Fellow David T. Keating, Fellow Grace L. Pitts, Fellow Emma L. Ball, Fellow William Cannan, Student Assistant J. F. Jeffrey, Student Assistant Charles F. Dowd, Emerson McMillin Scholar Wilbur E. Mann.

### APPOINTMENTS

CAPTAIN GEORGE L. CONVERSE, U. S. A. (Retired).....398 Oak street  
Professor of Military Science and Tactics

J. WARREN SMITH.....55 Cleveland avenue  
Lecturer on Meteorology

WALLACE S. ELDEN.....  
Assistant Professor of Classic Languages

EDWIN E. NOBLES.....71 West Tenth avenue  
Assistant in Drawing

S. S. EDMANDS.....  
Assistant in Electrical Engineering

S. E. RASOR.....  
Assistant in Mathematics

HENRY DAVIES.....  
Assistant in Philosophy

HARRIET BURR.....  
Fellow in Botany

C. P. LINVILLE.....  
Fellow in Chemistry

W. L. DUBOIS.....61 West Eighth avenue  
Fellow in Chemistry



CHARLES F. KIMBERLEY.....	225 Marshall avenue
Fellow in Chemistry	
*B. H. HIBBARD.....	
Fellow in Economics	
MARY W. RICE.....	844 Summit street
Emerson McMillin Fellow in Economics	
J. F. TRAVIS.....	1621 Neil avenue
Fellow in Mathematics	
WILLIAM E. BOHN.....	North Dormitory
Fellow in Rhetoric and English Language	
C. L. C. MOORE.....	68 West Tenth avenue
Student Assistant in Mathematics	
W. E. DAVIS.....	199 West Eleventh avenue
Student Assistant in Mathematics	
CLARA MAUD BERRYMAN.....	
Associate Professor of Physical Education	
ALONZO H. TUTTLE.....	
Instructor in American History	
SELDEN F. SYMSER.....	
Fellow in Economics	
GEORGE W. FROST.....	
Fellow in Mechanical Engineering	
CHARLES B. SAYRE.....	
Fellow in American History	
N. O. FORD.....	
Fellow in Metallurgy, Mineralogy and Mine Engineering	

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\*Resigned.

## CHANGES IN TITLES

SIDNEY AUGUSTUS NORTON,	Lecturer in Chemistry Emeritus Professor of Chemistry
WILBUR HENRY SIEBERT,	Associate Professor of History Associate Professor of European History
CHARLES BYRON FREDERICK,	Assistant in Veterinary Medicine Assistant Professor of Veterinary Medicine
WILLIAM FINLEY LAVERY,	Assistant in Veterinary Medicine Assistant Professor of Veterinary Medicine
MAUD DOROTHY JEFFREY,	Library Assistant Assistant in Library
FREDERICK EDWARD KESTER,	Assistant in Physics Instructor in Physics
LUCY ALLEN,	Library Assistant Assistant in Library
ALBERT V. BLEININGER,	Assistant Director of the Department of Clay Working and Ceramics Laboratory Assistant, Department of Clay Working and Ceramics
CLAUDE B. GUITTARD,	Library Assistant Assistant in Library
*FRANK ORVILLE CLEMENTS,	Fellow and Laboratory Assistant in Chemistry Assistant in Chemistry
W. D. GIBBS,	Associate Professor of Agriculture Professor of Agronomy
JOHN W. DECKER,	Associate Professor of Dairy Husbandry Associate Professor of Agriculture
MELVIN DRESBACH,	Fellow and Laboratory Assistant in Anatomy and Physiology Assistant in Anatomy and Physiology
H. C. LORD,	Director of the Emerson McMillin Observatory and Associate Professor of Astronomy Professor of Astronomy and Director of Emerson McMillin Observatory
HERBERT C. GORE,	Fellow and Laboratory Assistant in Chemistry Assistant in Chemistry
EDWARD ORTON, JR.,	Director of the Department of Clayworking and Ceramics Professor and Director of the Department of Clayworking and Ceramics

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\* Resigned in January, 1900.

CORNELIA P. SOUTHER,	Assistant Professor of Domestic Art Associate Professor of Domestic Art
F. C. CLARK,	Associate Professor of Economics Professor of Economics
C. S. PROSSER,	Associate Professor of Organic Geology Associate Professor of Historical Geology and Acting Head of the Department of Geology
J. A. BOWNOCKER,	Associate Professor of Inorganic Geology Associate Professor of Inorganic Geology and Curator of the Museum
F. E. SANBORN,	Director of the Department of Industrial Arts Professor and Director of the Department of Industrial Arts
WILLIAM H. RENCK,	Assistant and Instructor in Pattern Making Instructor in Pattern Making and Founding
W. A. KNIGHT,	Assistant and Instructor in Machine Work Instructor in Machine Work
CHARLES P. KROWE,	Assistant and Forge Master Instructor in Forging
W. F. HUNTER,	Dean and Professor of Sales, etc Dean of College of Law and Professor of Law
J. H. COLLINS,	Lecturer on Federal Practice Professor of Law
J. A. SHAUCK,	Lecturer on Supreme Court Practice Professor of Law
G. W. KNIGHT	Professor of Constitutional Law and Private Corporations Professor of Law
E. B. KINKEAD,	Professor of Pleading, etc Professor of Law
W. H. PAGE,	Professor of Elementary Law Professor of Law
E. O. RANDALL,	Professor of Agency, etc Professor of Law
D. F. PUGH,	Professor of Equity Juris, etc Professor of Law
E. A. HITCHCOCK,	Associate Professor of Experimental Engineering Associate Professor of Mechanical Engineering
FRANK A. RAY,	Associate Professor of Mine Engineering Professor of Mine Engineering

## EXECUTIVE DEPARTMENT

1899-1900

WILLIAM OXLEY THOMPSON.....	President
ALEXIS COPE.....	Secretary Board of Trustees and Bursar
W. C. McCracken.....	Chief Engineer
KATHARINE H. DUNCAN.....	Executive Clerk
EDITH D. COCKINS.....	Registrar
CARL E. STEEB.....	Accountant
CHARLES LOWE.....	Assistant Engineer
THOMAS BOUDE.....	First Fireman
W. E. CASE.....	Second Fireman
JAMES KELLEY.....	Lawnkeeper
BENJAMIN IRWIN.....	Watchman

### JANITORS

ARTHUR CHANTLER.....	University Hall
HENRY CHANTLER.....	Orton Hall
G. A. GOODSPEED.....	Chemical Hall
JOHN H. BROWN.....	Hayes Hall
GEO. C. DENNEY.....	Horticultural Hall and Veterinary Hospital
D. D. GEREN.....	Gymnasium
WILLIAM WHITESTINE.....	Biological Hall
M. N. COOK.....	Townshend Hall





# THE UNIVERSITY



# OHIO STATE UNIVERSITY

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## HISTORY

The land grant made by the United States under an act approved by President Lincoln, July 2nd, 1862, provided that there should be granted to each State an amount of public land equal to thirty thousand acres for each Senator and Representative to which the State was entitled by the apportionment of the census of 1860. The proceeds under this act were to constitute a perpetual fund the capital of which was to remain forever undiminished and the interest of the same was to be inviolably applied by each State which should take and claim the benefits of the act to the endowment, support and maintenance of at least one "College where the leading objects shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts, in such a manner as the legislatures of the states may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life."

Governor Tod, in November, 1862, brought the subject before the State Board of Agriculture and later to the attention of the Legislature. In January, 1864, Hon. Columbus Delano introduced a bill accepting the grant. This became a law February 9th, 1864, and pledged the faith of the State to the performance of all the conditions and provisions contained therein. In 1866, an act introduced by Hon. J. T. Brooks, was passed, which provided for the establishment of the Ohio Agricultural and Mechanical College, but the provisions were not carried into effect and a second act introduced by Hon. R. P. Cannon was passed in 1870 entitled "An act to establish and maintain an Agricultural and Mechanical College in Ohio." Under the provisions of this act the institution was located in Columbus and the Board proceeded to the organization of the college and the election of a Faculty of instruction, and the institution was opened for the reception of students on the seventeenth day of September, 1873.

In 1878 the legislature passed "An act to reorganize and change the name of the Ohio Agricultural and Mechanical College and to repeal certain acts therein mentioned." The act provided that the institution should be thereafter designated as "The Ohio State University." Up to this time but one appropriation had been made by the State for the support of the institution. With the reorganization came the larger and broader view of the State's relation to public education and since that time the Ohio State University has shared with other public educational institutions a more generous support by the State.

The governing body of the institution is a Board of Trustees, appointed by the Governor of the State and confirmed by the Senate, for terms of seven years, as provided in the law organizing the University. The original endowment has been supplemented, and the objects of the University promoted, by a permanent annual grant from the United States, under an act of 1890, by special appropriations of the General Assembly; and in 1891, by a permanent annual grant from the State, which grant was doubled by the legislature of 1896. In accordance with the spirit of the law under which it is organized, the University aims to furnish



ample facilities for education in the liberal and industrial arts, the sciences and the languages, and for thorough technical and professional study of agriculture, engineering in its various departments, veterinary medicine, pharmacy and law. Through the aid which has been received from the United States and from the State it is enabled to offer its privileges, with a slight charge for incidental expenses, to all persons of either sex who are qualified for admission.

### LOCATION OF THE UNIVERSITY

The University is situated within the corporate limits of the City of Columbus, two miles north of the Union Depot and about three miles from the State Capitol. The University grounds consist of three hundred and forty-five acres, bounded east and west by High Street and the Olentangy river, respectively. The western portion, about 235 acres, is devoted to agricultural and horticultural purposes, and is under the management of the College of Agriculture and Domestic Science. The eastern portion is occupied by the principal University buildings, campus, athletic and drill grounds, a park-like meadow, and a few acres of primitive forest.

The grounds are laid out with care, ornamented with trees, shrubs and flower beds; and are so managed as to illustrate the instruction in Botany, Horticulture, Forestry, Landscape Gardening and Floriculture.

The University may be reached by either the North High street or the Neil avenue electric cars. Those wishing to go to the principal buildings of the University, to the residences on the grounds, or the Athletic field, should take a High street car going north. Those wishing to visit the Emerson McMillin Observatory, the Veterinary Hospital, Townsend Hall, Horticultural Hall and the Dormitories, will find the Neil avenue cars more convenient.

The University has thirteen buildings devoted to instruction, one Boiler House, one Power House, two Dormitories, six residences and some farm buildings. These buildings represent an investment for construction of about eight hundred thousand dollars. The equipment and apparatus amount to about one hundred and seventy thousand dollars. The land now occupied as a site with the farm is valued at one million five hundred thousand dollars.

### BUILDINGS

UNIVERSITY HALL contains the Executive offices, the office of the Secretary of the Trustees, the assembly room (seating twelve hundred persons), four halls for literary societies, the Y. M. C. A. and King's Daughters' room, the Young Woman's League room and class rooms and laboratories for the departments of Economics, English Literature, German, Greek, History, Latin, Mathematics, Pedagogy, Political Science, Philosophy, Physics, Rhetoric and English Language, and Romance Languages. An electric passenger elevator connects all floors.

MECHANICAL HALL contains a room fitted up with cases for the care of models, instruments of precision, etc.; a room for instruction in laboratory mechanics and draughting, and laboratories with the engines, hydraulic plant, testing machines, etc.

BOTANICAL HALL has on the first floor the lecture room of the department of Botany. There are also an office, a store room, a dark room, and a private laboratory for Physiological Botany. On the second floor is the botanical museum, the main laboratory and the assistant's laboratory. Connected with this building is a large greenhouse and propagating house.

ELECTRICAL HALL devotes the first floor to the dynamo room. The floor of this room is of asphalt, laid on a solid concrete foundation. On the second floor

are a lecture and draughting room, a photometric room, a library room, and office, stock and locker rooms.

CHEMICAL HALL is now occupied by the departments of Chemistry, Mining and Metallurgy and Pharmacy. The department of Chemistry occupies the middle portion of the first floor and the middle and western portion of the second floor. The main lecture room has a seating capacity for one hundred and fifty students. The laboratory for introductory work and qualitative analysis has accommodation for two hundred and sixty-four students. There is also a special laboratory for qualitative analysis with accommodations for twenty-five students. The main quantitative laboratory accommodates fifty students. There is also an organic laboratory, a room for the preparation of experiments, a balcony accessible both from the lecture room and preparation room, a room for combustion work, a dark room for spectroscopic work, in addition to a number of smaller rooms used for private laboratories.

The departments of Mining and Metallurgy occupy the east end of the building. In the basement are the smelting furnaces, the assay laboratory, a room for rough work and store room for supplies. On the first floor is the lecture room of the professor of Metallurgy, with a seating capacity for forty; a laboratory with desks for sixteen students, a store room, a balance room, a private laboratory and an office. On the second floor is the lecture room of the associate professor of Mine Engineering, a draughting room, a room for instruments and an office.

The department of Pharmacy occupies the first floor and basement in the west end of the building, and has a lecture room provided for sixty students; a preparation room, a laboratory with desks for twenty-five students; a room for supplies, a balance room, a model drug store and a private laboratory.

ORTON HALL is designed for the permanent accommodation of the large geological collection of the University and for work and instruction in the department of Geology. A portion of it is occupied by the library and reading room. The building is two stories in height, with a high basement, is built of brick and faced with sandstone, and is fireproof throughout. At the right of the main entrance is the geological lecture room and professor's private room; at the left is the University library, reading room and librarian's private room. The central and rear portion is occupied by the geological and paleontological museums. The petrographical laboratory is located on the second floor. In the basement a room is used for work in geographical modeling, the finished models being afterward placed in the collection of such models in a room set apart for the purpose on the second floor. The basement accommodates also the museum of economic geology. A paleontological laboratory or working room is also provided on the second floor.

The greater part of the basement of Orton Hall is occupied as a laboratory by the department of Clay-working and Ceramics. This department is also accommodated with a large room on the first floor for recitation and exhibition purposes. In the rear of Orton Hall is a small brick structure used for the kilns of this department.

HAYES HALL is devoted to instruction in Industrial Arts, Drawing, Civil Engineering and Domestic Economy. On the first floor are two offices, the rooms of the department of Domestic Economy and two lecture rooms, the machine shop, the forge shop and the foundry. On the second floor are the carpenter and pattern shops and six large lecture rooms, with private rooms annexed.

The department of Drawing occupies the third floor for instruction in mechanical drawing and free-hand drawing and photography.

HORTICULTURAL HALL contains recitation rooms and indoor laboratories of the department of Horticulture and Forestry. An extensive greenhouse is attached.



THE VETERINARY HOSPITAL contains on the first floor a veterinary museum and library, a dispensary and two private rooms for the persons in charge. On the second floor are a class room, a bacteriological laboratory and a microscopical laboratory. The rear extension contains an operating hall and a room provided with stalls, cages, etc., for the care of animals under treatment.

THE EMERSON McMILLIN OBSERVATORY is the gift of Mr. Emerson McMillin of New York. The first floor is divided by a hall and stairway into two parts. The east wing contains an office, library, clock room and a large, well-lighted room for the students, furnished with tables, where they reduce their observations and keep the records of their work. The west wing contains the transit house, the dome and photographic dark room. The transit house is a light frame structure, so designed as to be kept as free as possible from heat radiated by any heavy walls of masonry. The dome is a wooden frame-work, covered on the outside with canvas. The rest of the building is of pressed brick, the foundation and second story being "rock-faced."

The equipment consists of a twelve-inch equatorial telescope, mounting by Messrs. Warner & Swasey, objective by Mr. Brashear, with a large and powerful spectroscope by Mr. Brashear. This instrument is adapted to use either one or two prisms or a grating, and is provided with a double set of objectives, one corrected for the visual and one for the photographic rays; a positive micrometer with a seven-inch circle by Messrs. Warner & Swasey; a combined zenith telescope and transit instrument of three inches clear aperture by Mr. G. N. Saegmüller; a sidereal clock by Clemens Riefler of Munich; a comparator by Carl Ziliss; a four inch portable equatorial by Alvan Clark; a chronograph by Warner & Swasey; sextants, chronometers, meteorological instruments, etc. In addition to the above, Mr. McMillin's gift provides for an excellent astronomical library.

TOWNSEND HALL is devoted exclusively to the instruction given in the College of Agriculture.

On the left of the entrance is the office of the Department of Agriculture and a private office, a stenographer's room and fireproof vault. Connected with the office on the south is an assistant's room, opening into a laboratory for advanced students. At the extreme south end of this floor is a large laboratory for student-work in soils and farm crops. Connected with this laboratory is a balance room, a store room and an instructor's laboratory. On the west side of the main corridor, and connected with the instructor's room, is a large class room opening into a preparation room with a dark room. This class room is fitted with all appliances for showing lantern slides of livestock, buildings, machinery, etc. On the same side of the corridor, and on the right of the stairway leading to the basement and second floor, are the class room and instructor's room for dairying. On the right of the main entrance is the department reading room. The north end of this floor is occupied by the museum with an attendant's room.

The north end of the high basement is occupied by the dairy department. This consists of a receiving room, a pasteurizing room, a store room, a refrigerator room, a lavatory, butter-making room, cheese-making room, two cheese-curing rooms and an instructor's room.

In the south end of the basement is a livestock room about forty feet square. One third of this room is occupied by raised seats, the remaining floor space being used for exhibiting and judging livestock. Connected with this is a room fitted with stalls for the temporary accommodation of livestock when needed for class exercises. The basement also contains soil storage room, bath room, toilet rooms, repair shop, locker rooms, bicycle room and janitor's room. A small detached building will furnish steam and power for the dairy department. Detached from the main building, but connected with the soil storage room by a

tramway, is a glass house for the study of soils and the experimental growth of plants.

The north end of the second story contains a large student laboratory for the department of Agricultural Chemistry, connected with an organic and analysis laboratory, a balance room, a store room and a private laboratory. The lecture room of this department is at the south end of this floor and will seat one hundred and sixty students on raised seats, with a preparation room adjoining. There is also in this floor a class room connecting with preparation room, store room and instructor's room, which is used (temporarily) by the department of Veterinary Medicine. There is also an extra class room, ladies' toilet and locker rooms and a hall for the use of the Townsend Society, designed to seat about two hundred persons.

BIOLOGICAL HALL is designed for the special accommodation of the departments of Entomology, Zoology, Anatomy and Physiology, and is fully equipped with all the latest and best apparatus for this work. It consists of a basement, in which is done all the work of preparation of subjects for the lecture tables and for the special laboratory work for the advanced students; the first floor, on which are lecture rooms, general and special laboratories, and private work rooms for the professor of Entomology and Zoology and his assistants; the second floor, similarly arranged for the work in Anatomy and Physiology; and a large wing, in which is the museum and a large lecture room. The building is fireproof throughout, and in design and general appearance is one of the most attractive on the campus.

THE GYMNASIUM AND ARMORY was first occupied in January, 1898. The drill hall and gymnasium floor is eighty feet wide by one hundred and fifty feet long. The roof is carried on curved steel arches, lighted from a clear story at the top. There is a running track around the entire room about twelve feet from the floor, back of which is a visitors' gallery seating about seven hundred persons. At the northwest corner of the floor is a stairway leading down to the men's locker and dressing room, while the young women go down a similar way at the southeast corner to their rooms. On the level with the main floor, near the main entrance at the south, is a large room for the use of the Commandant and his classes and rooms for the Director of the Gymnasium. Above the Commandant's room is the room for the officers of the University Cadet Corps.

The basement is very high and well lighted. On the young men's side are dressing and locker rooms, the bath room with shower and plunge baths, a bicycle room, a lecture room, the cannon room, the band room, and a large room, which is to be the home of the University Athletic Association. On the young women's side are the locker rooms and bath rooms—precisely like those provided for the young men—a bicycle room, lecture room and private office for the instruction in sanitation and hygiene for young women.

THE NORTH DORMITORY is situated at the northern limit of Neil avenue, and fronts Eleventh avenue. It is at the terminus of the Neil avenue electric car line. It is a plain structure of brick, and affords accommodation for sixty-four students.

THE SOUTH DORMITORY stands near Neil avenue within a few rods of the North Dormitory. It is also built of brick, and contains rooms for twenty students.

RESIDENCES. There are seven dwelling houses upon the University campus. Five of these are brick and two are frame structures. One is occupied by the President of the University, five by professors, and the seventh is the farm house.



## ORGANIZATION OF THE UNIVERSITY

The Ohio State University is divided into six colleges, as follows:

The College of Agriculture and Domestic Science consists of those departments represented in the course leading to the degrees of Bachelor of Science in Agriculture, Bachelor of Science in Horticulture and Forestry and Bachelor of Science in Domestic Economy, and in the Course in Dairying.

The College of Arts, Philosophy and Science consists of those departments represented in the courses leading to the degree of Bachelor of Arts, Bachelor of Philosophy, and Bachelor of Science; and in the Courses Preparatory to Law and to Journalism.

The College of Engineering consists of those departments represented in the courses leading to the degrees of Civil Engineer, Engineer of Mines, Engineer of Mines in Ceramics, Mechanical Engineer, Mechanical Engineer in Electrical Engineering, and Bachelor of Science in Industrial Arts, Bachelor of Science in Chemistry or in Metallurgy; in the Course in Architecture, in the Short Course in Clay-Working and Ceramics, and in the Short Course in Mining.

The College of Law consists of those departments represented in the course leading to the degree of Bachelor of Laws.

The College of Pharmacy consists of those departments represented in the courses leading to the degree of Bachelor of Science in Pharmacy, and in the Short Course in Pharmacy.

The College of Veterinary Medicine consists of those departments represented in the course leading to the degree of Doctor of Veterinary Medicine, and to a certificate of Veterinary Surgeon.

Each college is under the direction of its own Faculty, which has power to act in all matters pertaining to the work of students in that college.

## LABORATORIES AND EQUIPMENT

## AGRICULTURE

The equipment of this department may be divided along three general lines: the plant, the museum and the illustrative materials.

**THE PLANT.** This consists of a farm of about two hundred acres, a general farm barn, a horse barn, and several smaller buildings. The farm lies along the Olentangy river, and includes both first and second bottom land. On this farm are grown general farm crops in the rotation deemed best suited to the circumstances of the Department. At present a few experiments are conducted, the general idea being to conduct such experiments as will have the largest instructional value to the students who attend the College of Agriculture. The Ohio Agricultural Experiment Station continues to conduct here the elaborate fertilizer experiments with wheat, corn and oats, which it has been making on this farm during the past five years. Different species and varieties of farm crops are grown to some extent for the purpose of class illustration and instruction, and it is expected to enlarge this feature.

Specimens of the draft, coach and roadster type of horse are kept and used in the farm work. The Department manages a milk dairy; having a herd of about forty cows, composed of pure bred and grade Jerseys and Shorthorns.

The general farm barn contains a well arranged stable for forty cows, with underground drainage and sewage cistern, a milk cooling room, a silo, a roof cellar, a work-shop, with room for hay, grain and other foodstuffs.

**THE MUSEUM.** This contains a large number of samples of farm products in various forms and their by-products, such as soils, grains, grasses, wools, cotton,

forage plants and foodstuff. Milling and other processes are illustrated by samples of the various products of manufacture.

The museum contains Auzoux models, samples of tools and a considerable miscellaneous collection. The collections are intended primarily for student use and not for display.

**ILLUSTRATIVE MATERIALS.** These consist of charts, pictures and lantern slides showing results of experiments, representative and noted specimens of livestock, farm machinery, fences, buildings, etc. The Department has and uses constantly in the class room a Beseler double oxygen-ether stereopticon. The collection of several hundred lantern slides for this purpose is constantly receiving additions.

**THE AGRICULTURAL LIBRARY.** While not considered as belonging specifically to this Department, there is in the general library a fairly good collection of books and periodicals devoted to agriculture, a large use of which is required of the student.

**THE LABORATORY OF SOIL PHYSICS** is located on the second floor of Horticultural Hall, and is supplied with apparatus for the mechanical analysis of soils and for testing their physical properties. (*See also BUILDINGS — Townshend Hall.*)

#### ARCHITECTURE

This work is carried on in connection with the Department of Drawing. The facilities for this work consist of a large, well-lighted drawing-room for the designing and drawing part of the work, a recitation room specially fitted with stereopticon lantern to illustrate the lectures, several hundred lantern slides of typical specimens of architecture from all parts of the world, a collection of scale design drawings, a collection of specifications of buildings that have been erected, a collection of plaster ornaments used in architectural decoration and a well selected collection of useful books in the library. The City contains many buildings of interest to the architectural student, both in a completed state and in process of erection.

#### BOTANY

The general Botanical Laboratory occupies a part of the second floor of Botanical Hall. It is 23x33 feet, and is furnished with both movable and fixed tables. The latter are attached to the west and south walls near windows, suitably shaded. Water, gas and an evaporating hood are also provided. The laboratory is equipped with compound microscopes of the Baush and Lomb, the Leitz and other patterns; and accompanying each is a tray of tools and a case of reagents. There are more than fifty dissecting microscopes, also charts, and several minor pieces of apparatus for experiments in vegetable physiology. Three smaller rooms are also provided as laboratories for special work, as well as a dark room for photography. Other facilities for the illustration of the courses in botany, and for practical training in the same, are: A general herbarium, including flowering plants, ferns, mosses, fungi and algae; a state herbarium, a collection of fruits and seeds, valuable timbers, woods, grasses and various economic products of the vegetable kingdom; ornamental grounds and woodland, planted with a large variety of evergreen and deciduous trees and shrubs; and a greenhouse with a fair collection of native and exotic plants. (*See also MUSEUM — The Botanical Museum; and BUILDINGS — Botanical Hall.*)

#### CHEMISTRY

The laboratories of the department accommodate from three to four hundred students. Each laboratory is equipped with all the necessary conveniences as water, gas, electric lights, distilled water piped from a large still in the attic,

steam ovens, automatic air blasts, suction pumps, etc. The department is liberally supplied with the best apparatus and materials for both lecture room and laboratory work. Each student has his own desk with drawers and locker. All supplies are procured from the chemical store room which has always on hand a complete stock of all necessary materials. (See also BUILDINGS — *Chemical Hall*.)

#### CIVIL ENGINEERING

The facilities provided for the illustration of the courses in civil engineering and for practical training are as follows: One high grade and three ordinary transits, four leveling instruments, solar compass, prismatic compass, improved telescope compass, Abney hand level, level and stadia rods, sight poles, chains, tapes; twenty-six improved drawing tables with 30" by 36" top; Schroeder's models in stereotomy of roof trusses; large set of models of wooden joints; collection of photographs of bridges, both when finished and in course of erection; collections of strain sheets and shop drawings of bridges; new improved cement testing machines and outfit for making all kinds of cement tests; stone mason tools for working models out of plaster blocks; magic lantern and slides; collections of samples of building materials; calculating machines; sets of drawing instruments; blue print room with outfit; sets of tracings of standard structures from which each student may make a set of blue prints. The equipment is growing each year by the addition of materials purchased, presented, or made by students of the Department.

#### CLAY-WORKING AND CERAMICS

The University is the first, and at this time the only institution in the United States offering special facilities for the study of clays, clay-working, and the chemical technology of the ceramic art. The facilities of the Department comprise: 1st. A convenient chemical laboratory, specially designed and equipped for the analysis and decomposition of silicates. Provision has been made for the use of hydrofluoric acid with safety, and the platinum ware has been made to order with this purpose in view. 2d. A complete mechanical outfit for the preparation of clays for pottery manufacture and the production of the ware itself, of any grade from earthen wares to porcelain. The machinery is of the latest types and comprises all important varieties in use for grinding, tempering, washing, filtering and molding. 3d. A similar plant for the manufacture of brick, tiles, pipes and hollow goods. The machinery here is of full size and samples up to a ton in weight can be received and transformed into the finished article by any or all of the standard methods in commercial use. The power for this purpose is derived from a fine electric motor, driven from the University power plant. 4th. A kiln house, equipped with a kiln in which several hundred bricks, or an equivalent quantity of sewer-pipe, stoneware, or pottery can be burnt. The fuel is intended to be coke, except in special cases where the fuel available for burning clay wares is to be made the subject of test. There is also provided a crucible melting furnace and a muffle furnace for testing glazes. A muffle kiln of large size for burning pottery, glazed ware and decorated wares has recently been put into operation. 5th. A ceramic museum, containing a fine collection of American pottery and clay products of every class, is in process of installation. 6th. A library of the best literature on the subject, mainly German but containing a few English and French works, and the trade periodicals. (See also BUILDINGS—*Orton Hall*.)

#### DOMESTIC ECONOMY

The Department of Domestic Economy (for young women) will secure for the course all that experience and observation may suggest. At present it has a large



kitchen, with dining room adjoining, each fitted with the latest and best appliances for the work undertaken. About a thousand dollars has been expended to make this department entirely practical, and to permit its instruction to be as thorough and as scientific as that of any other department in the University.

#### DRAWING

The Department occupies the entire third floor and one room in the basement of Hayes Hall, and is provided with the following equipment for the illustration of the work in drawing and for the practical training in same:

For freehand drawing, water color and oil painting:—A large studio thirty-five by eighty feet, specially arranged and provided with adjustable tilting tables and easels, a well selected collection of pencil, pen and ink, charcoal and color specimens of work, wooden models of geometric forms, plaster-casts of ornaments, flowers, fruit and the antique.

For clay-modeling:—A specially arranged and equipped studio twenty-six by thirty-two feet for modeling in clay and casting in plaster, consisting of modeling stands, moisture box, casting table, modeling tools of wood and steel, stove and vent-hood for the preparation of gelatine molds and lockers.

For mechanical drawing and mechanical and architectural designing:—A large, well lighted room forty by eighty-five feet, provided with O. S. U. drawing tables (30" by 36" tops), a set of Schroeder models, a collection of shop drawings and facilities for blue-printing.

For photography:—A well arranged and equipped dark-room, printing apparatus, copying camera, six view cameras, lenses of long and short focus, tele-photographic lens, shutters for instantaneous exposures and an excellent outfit for photo-micrography.

In addition to the above, the library contains a well selected collection of books pertaining to the work of the Departments. (See also BUILDINGS—*Hayes Hall*.)

#### ECONOMICS AND SOCIOLOGY

The University, through the efforts and generosity of its friends, is possessed of a unique equipment for study purposes in these lines. This equipment comprises a large collection of railroad, municipal and school bonds; of stocks of all kinds; of letters of credit, drafts, foreign bills of exchange, bills of lading, checks, enclosures, statements, insurance policies, trust certificates, notes, mortgages and all the necessary forms of business paper; also collections of coins illustrative of various periods in our monetary history, foreign coins, and scrip; also sets of maps and charts and a Kiepert-Commercial Globe 80 cent. in diameter. Ample facilities for statistical work are provided and a seminary room set apart for the use of laboratory material, documents, etc., is always open to advanced students. It is the policy of the Department to make the statistical investigations and research work of advanced students contributory to the permanent equipment of the Department, thus enriching the facilities from year to year with material of scientific and pedagogical value.

#### ELECTRICAL ENGINEERING

The Electrical Laboratory affords very good facilities for practical experimental work with dynamo machinery and other electrical apparatus. The dynamo equipment consists of twenty-five machines of various makes and sizes from 40 H. P. down; aggregating over 200 horse power. These include direct and alternating current generators, polyphase motors, arc and incandescent lighting generators, railway and station motors and unipolar dynamo. The latter, with an alter-



nating current generator and a 2-phase motor, were built by the students; it being the policy of the Department to build as much of its apparatus as possible. There are also a number of transformers of different makes, including one for welding,—built at the University. Arc lamps of different styles, a 10-kilowatt-hour storage battery, condensers and resistances, and magnetic testing apparatus also form part of the equipment. The list of measuring instruments is quite complete, and includes a standard Weston voltmeter and eleven other Weston volt and am-meters, also four Kelvin static voltmeters, five dynamo-meters, one watt-meter, three galvanometers and a dozen other am-meters and voltmeters of different makes. A telephone laboratory—with apparatus for comparative tests, a variety of transmitters and receivers, and lines running to another building, has been in use for two years. Photometry is given at present in the Physical Laboratory, where the equipment in this line is excellent. Power for running the dynamo laboratory is supplied by three induction motors from the University Power Plant. This latter is a model 2-phase plant, and the electrical part of it has been for the most part installed by the students of the Department. The repair and maintenance of this plant is done by the students, who receive compensation for the time so spent.

#### GEOLOGY

The University is able to present unusual advantages for the study of Geology. By an act of the Legislature it has been put in possession of all the collections made by the late Geological Survey, and these collections have been supplemented by valuable additions of fossils and minerals from various sources. The State collection embraces a very complete representation of every geological formation shown in Ohio. In its new and ample quarters the Department offers exceptionally good opportunities for work in the lithological, petrographical and modeling laboratories. (See also MUSEUMS—the *Geological Museum*; and BUILDINGS—*Orton Hall*.)

#### HORTICULTURE AND FORESTRY

Among the facilities provided for the illustration of the courses in horticulture, and for practical training in the same, are: (1) a collection of horticultural tools for budding, grafting, pruning, etc.; (2) an orchard, containing well-selected varieties of the apple, pear, cherry, plum and quince; (3) a small vineyard, containing numerous varieties of the grape; (4) a garden of small fruits, containing all the best varieties of the strawberry, raspberry, blackberry, currant and gooseberry; (5) a vegetable garden, with forcing houses, cold frames, experimental plats, conveniences for irrigation, etc.; (6) small nursery and forest tree plantations, with practice rows of budding, grafting, pruning and training; (7) ornamental grounds and woodland, planted with a large variety of evergreen and deciduous trees and shrubs; (8) a greenhouse, with a fair collection of native and exotic plants; (9) a collection of preserved natural specimens, and models of fruits, seeds, woods, etc.; (10) a laboratory fairly well equipped with balances, charts and other appliances for study and research. (See also MUSEUMS—the *Botanical Museum*; and BUILDINGS—*Horticultural Hall*.)

#### MECHANICAL ENGINEERING

The greater part of Mechanical Hall is devoted to laboratory purposes.

The south laboratory is used for applied mechanics and for gas engineering. Here are located the machines for testing the strength and elasticity of engineering materials, and recording their physical properties automatically and autographically. Oils are tested as illuminants and as lubricants. Belts and pulleys are tested for their slippage, friction and horse-power transmitted. The gas engine plant has three engines, representing gas and gasoline, three methods

of ignition, and fly ball and inertia governors. The air is supplied by a fan through a large meter. Temperatures and pressures of air, gas and water are measured. The fresh and burnt gases are analyzed and their heating values determined by a calorimeter. The power is measured at both the indicator and the brake. The laboratory machine shop and tool room are in this room.

The north laboratory is used as a steam engineering and hydraulic laboratory. Four 35-horse-power engines give facilities for testing single and duplex condensing or non-condensing, simple or compound, throttling or automatic cut-off engines, using either a jet or a surface condenser. Pressure and vacuum gauges are calibrated. Indicator springs of five makers are tested either cold or hot. Five kinds of calorimeters determine the moisture in steam before and after passing three different separators. Injectors are tested for lift, quantity, pressure and steam consumption. Steam pumps of six makes, ranging to 800 gallons per minute capacity; two centrifugal and a rotary pump, enable tests of pumps to be made and deliver water at pressures below 150 pounds to two stand-pipes, which in turn supply turbine and cascade, and Pelton water wheels, and enable experiments to be made on the flow of water through orifices, pipes, valves, etc. Three cisterns, provided with a variety of weirs up to five feet wide, give practice in measuring flowing water. A Venturi meter and a Pilot tube are also used. Ericsson and Rider hot air engines are tested. A Rife hydraulic engine, a Humphreys ram, Gem and Eureka water motors, and a pulsometer, are included in the hydraulic apparatus, all of which are connected and prepared for complete tests.

A complete set of Westinghouse air-brake apparatus, a blower and a ventilating fan, enable experiments to be performed in the flow of air. They are supplemented by tests of the heating and ventilating plants in the buildings of the campus.

In addition to the apparatus and equipment of the power plant of the University the power house at Townshend Hall contains a horizontal, return tubular boiler, two steam engines and an ammonia refrigerating machine, making the facilities on the campus for testing quite complete. Machinery, apparatus and appliances are continually being presented, built or purchased, and the student is given an opportunity to test everything under practical conditions of operation. Besides the laboratory facilities, opportunities frequently arise to test machinery, engines or boilers in the city, and in these tests the students take part.

#### METALLURGY

The metallurgical laboratory has all the appliances for the most modern methods of technical analysis as practiced in iron and steel laboratories, including gas analysis. A furnace room in the basement is fitted for gold and silver assaying, with improved muffle and crucible furnaces.

The lecture room in metallurgy has arrangements for projecting photographs of machines, mines and furnaces, for class illustration, and there is a large collection of such views. There is a photographic room with blue-printing facilities, where students learn to make copies of the drawings used in illustrating the lectures.

A collection of minerals and rocks with a large set of rock sections is provided for illustrating the mineralogy, as well as sets of blow-pipe apparatus for the students in determining mineralogy. (See also BUILDINGS—*Chemical Hall*; and MUSEUMS—*The Geological Museum*.)

#### MINE ENGINEERING

The Department is equipped with all of the latest improved instruments and apparatus used in mine engineering, surveying and the study of mine ventilation.



There is a collection of models of mine machinery and supplies, to which additions are being made which are valuable as illustrations. The draughting room is large, well lighted and provided with a desk for each student, where he is personally taught map making and the platting of actual surface and underground surveys; the making of tracings of drawings and how to make blue-prints. He is also taught the proper methods of keeping notes and all records necessary to an efficient engineers' office. The students are given practical experience by making actual surveys of coal mines and in working up their notes complete in all of the necessary details. The students are also taught how to make working drawings, plans, estimates and specifications of mining operations and equipment.

The lecture room has arrangements for projecting photographs of machines, mines and mine equipment, for class illustration, and there is a collection of such views. Also photographic room with blue-printing facilities, where students learn to make copies of the drawings made by themselves and those used in illustrating the lectures.

#### PHARMACY

The facilities provided for illustration of this work and for practical training are as follows: The apartments assigned to this work occupy the west end of the Chemical Hall, first floor and basement. The lecture room will accommodate sixty students, and is provided with a large lecture table and supplied with gas and water, and other conveniences for experiment. About the walls are arranged cases in which are exhibited rare and costly chemicals, curious drugs, and high-grade pharmaceuticals. Adjoining this room is the preparation room and storeroom, where the supplies and apparatus and material are kept, and where the apparatus for experiment and illustration before classes is prepared. Also adjoining this room is the professor's private laboratory. The main laboratory has desks for thirty-five students, each one provided with gas and water, and sufficient storage space for material and apparatus. The laboratory is furnished with apparatus for distilling, and reclaiming, with mills, balances, drying closets, steam vaporizers, hoods and other special apparatus for pharmaceutical work. Opening into the laboratory is the drug store. This drug store is complete, and is in itself a cabinet of official drugs, and all preparations thereof. It is provided with a prescription desk and all apparatus adapted for training in prescription work. Adjoining the laboratory is the reading room, where are kept the various pharmaceutical journals, the dispensatories, and many books of reference. Also adjoining the main laboratory is the balance room, which is well provided with analytical balances, specific gravity balances and microscope, all of which are intended for higher pharmaceutical work.

In the reading room is also a cabinet of crude drugs, which have been classified and numbered but bear no name. This cabinet is adapted to the study of pharmacognosy.

In addition to the foregoing equipment, the Department is possessed of an extensive range of apparatus, by means of which any branch of work in pharmacy can be successfully pursued. The Department is complete in all its details, and affords unexcelled opportunity for the study of pharmacy. (See also BUILDINGS—*Chemical Hall*.)

#### PHYSICS

The Department has an excellent equipment of apparatus, to which additions are constantly being made. The apparatus includes a large collection of pieces for illustration of the general lecture room work, but is principally chosen for accurate measurement in the laboratory. A set of standards of length, capacity and mass, sent under the act of Congress supplying such sets to the several agricultural

colleges, is in the possession of the Department. The pieces are copies of the United States standards made by the Coast Survey at Washington.

Among the principal pieces of apparatus are a dividing machine by Fauth & Co.; chronometers by Parkinson & Frodsham and by Negus, the latter a break-circuit; a chronograph by Fauth & Co.; a Hipp's chronoscope; cathetometers by Salleron and by the Geneva Society, the latter an exceptionally fine instrument; Regnault's apparatus for vapor tension, for expansion of gases and for specific heat; Melloni-Tyndall apparatus for radiant heat; standard thermometers by Baudin and others; Rutherford and Rowland, different gratings; Rowland's spectrum photographs; spectroscopes by Brashear, Browning, Apps and others; Salleron's complete apparatus for projections in polarized light; lanterns for projections by the lime light and the arc light; a variety of sound apparatus from Koenig; portable and quadrant electrometers; Kelvin galvanometers of high and low resistance; Weidemann, Kohlrausch and other galvanometers; standard resistance coils, with Cavendish laboratory certificate; several sets of resistance coils and bridges; a Kew magnetometer; Kelvin standard balances; Weston ammeters and voltmeters; standards of self-induction; standard battery cells; photometric standards and photometers; X-ray apparatus, etc.

Under the laws of Ohio, the professor of physics is *ex officio* State Sealer of Weights and Measures, and all of the standard weights, measures and balances received from the United States government are in the rooms of the Department.

#### PSYCHOLOGY

The facilities provided for the study of anatomy, bacteriology, histology and physiology are excellent. The laboratory is supplied with skeletons, papier-mâché manikin, and many models, including models of the eye, ear, larynx, etc. The apparatus of the Department for work in bacteriology and physiology is of the best and most approved construction, and is adapted to the accurate investigation of bacterial forms, as well as to the thorough performance of the fundamental physiological experiments. Myographs, spectroscopes, microscopes and the necessary chemical outfit are also provided. For work in histology the equipment includes twenty-four individual tables for student experiments, each table being supplied with a good microscope, microscopical accessories, microscopical reagents; and for advanced work, the needed apparatus for instruction in the various methods of hardening, staining, imbedding, section-cutting and injection. The laboratory also has excellent microtomes, imbedding baths and other essentials of a histological outfit. The equipment of the laboratory makes it possible to offer a large range of work for the choice of students in advanced courses. (See also BUILDINGS—*Biological Hall*.)

#### PSYCHOLOGY AND EDUCATION

The psychological laboratory occupies three rooms on the fourth floor of University Hall and is reasonably well equipped for work in physiological and experimental psychology and for research in related educational lines. For the study of motor processes and development the most improved form of ergograph with complete sets of myographic, chronographic, dynamometric and pneumatic recording appliances, has been provided. A complete outfit of apparatus for the study of sensation, memory and association make it possible for students of education to acquire methods of exact observation of the various mental and motor processes involved in school work. Provision has also been made for work in comparative psychology.



## SHOPWORK

The shops, which occupy the north wing of Hayes Hall, afford excellent facilities for instruction in both the practical details and the underlying principles of carpentry, pattern-making, forging, moulding, foundry work and machine work.

The carpenter and pattern shop is equipped with twenty-five benches with complete sets of carpenter tools for each and a large number of special tools for general use, twenty-three pattern-makers' turning lathes with cupboards containing the necessary turning and pattern-making tools under each, a pony planer, a buzz-planer, a circular rip and cross-cut saw, a scroll saw, a trimmer and a power grindstone.

The forge shop is equipped with twenty stationary forges with anvils and tools for each, a heating forge, a portable hand forge, a foot-power hammer, a blacksmith's drill and a punch, shear and bar cutter. The blast for the forges is furnished through underground piping by a 45" Buffalo pressure blower, and the smoke is removed by a 55" Buffalo exhaust fan overhead. Both of these fans are driven by a 15-horse-power electric motor.

The foundry is equipped with a 24" Calliau cupola, the blast for which is furnished by a 30" Buffalo blower; two brass furnaces, one 16 inches in diameter and the other 20 inches in diameter; a core oven, benches for iron and brass moulding, core making and cleaning of castings, a space for floor moulding 30 feet by 40 feet, besides all the necessary moulding tools, flasks, crucibles, ladles, tongs, etc.

The machine shop is driven by a 30-horse-power electric motor from above, and is equipped with the following tools: Twenty-eight benches for vise work with complete sets of tools, eight speed lathes, sixteen engine lathes, two planers, two shapers, a milling machine, an upright drill, a sensitive drill, grinding machines for both plane and cylindrical surfaces, tool grinders, emery wheels, etc. This machinery is furnished with all the necessary tools, and the tool room is equipped with full sets of drills, taps, dies, milling cutters, standard plugs, gauges, threads, etc., micrometers and a great variety of special tools. (See also BUILDINGS—Hayes Hall.)

## VETERINARY MEDICINE

The Veterinary Hospital affords excellent facilities for the treatment and care of animal patients, and also gives the students the opportunity to become practically familiar with the diseases to which our domesticated animals are subject. It contains box stalls, stalls for cold water applications, a large and well lighted operating hall and a special ward for dogs. The front part of the Hospital contains a lecture room, a museum of anatomical and pathological preparations, a drug dispensary and an office. In the museum are skeletons of the horse and ox, a complete manikin of the horse, papier-mache models of various anatomical parts, pathological specimens preserved in alcohol, etc.

In the library are choice collections of works in veterinary medicine and allied sciences and also copies of the leading veterinary periodicals.

The College is well equipped for surgical work. Instruments of the latest and most approved makes are kept in the instrument room for use in operations.

In the daily clinics not only are horses and dogs presented, but also the meat-producing animals from the barn, near the College.

The bacteriological laboratory in the biological department is supplied with apparatus of the most modern and improved construction, the microscopic appliances being adapted to the most accurate work in bacteriology. (See also BUILDINGS—The Veterinary Hospital, Biological Hall.)

## ZOOLOGY AND ENTOMOLOGY

Instruction in this department is largely by the laboratory method with lectures and use of text or reference books, the effort being to lead the student to observe and think for himself. The various courses are intended to provide instruction in the elements of the science, familiarity with methods of study and investigation, and opportunity for special research involving field, laboratory, museum and library work. The adjacent fields, wood, lake and river; the various well equipped laboratories, extensive collections and libraries furnish excellent opportunities for every phase of the study.

The Department occupies the first and third floors of the fine new Biological Hall providing two lecture rooms, one general and five special laboratories, museums, offices for professor and assistants, besides room for storage, workshops, aquaria, cold-storage, photography, etc. The laboratory equipment includes microscopes, microtomes, incubators, injectors, etc., for most approved methods of work in morphology, embryology and neurology. The collections include a fine series of skeletons, a number of large mammals, series of the birds of Ohio, of the birds of North America, of Ohio fishes, of mollusks and especially rich collections of insects particularly in Odonata Hemiptera and Diptera. (See also THE MUSEUMS—*The Zoological Museum, Biological Hall.*)

The Lake Laboratory maintained at Sandusky and open during the summer vacation offers courses of instruction and exceptional opportunities for original investigation in a very interesting and delightful locality. (See Lake Laboratory.)

## THE LAKE LABORATORY

The University maintains a lake laboratory during the summer vacation at Sandusky where it occupies a convenient building, the former Hatchery building, 22x26 feet located by the city water works and close to the waters of the bay and convenient to good boarding places.

It has good facilities in the way of boats, tables, aquaria, collecting appliances, while microscopes, reagents, etc., are fully supplied from the home laboratory.

It offers for the coming season courses in botany and zoology outlined below, and also opportunities for special research in any branch of biology. The professors of the departments of Botany and Zoology and Entomology with their assistants will constitute the staff of instruction.

The courses will be open to students and teachers generally and students of the University may receive credit for courses equivalent to University courses.

Investigators engaged upon special problems relating to the fauna or flora of the region are given the privilege of the laboratory without charge but are expected to furnish their own microscopes or other special apparatus unless otherwise arranged. For the courses of instruction, a fee of twenty dollars will be charged which will cover all expense of instruction, laboratory supplies and use of boats and admit to two full courses of eight weeks.

## COURSES IN ZOOLOGY

(a) Laboratory and field courses including dissection of type forms, aquaria and field studies with instruction in collecting and preparing material for laboratory use and permanent collections. Special attention will be devoted to fishes and their food supply.

(b) Advanced courses in Invertebrate Morphology or Embryology.

(c) Special courses in Entomology, field and laboratory work.

(d) Special course in Ichthyology devoted particularly to the lake fishes, their habits and food supplies.

#### COURSES IN BOTANY

(a) Laboratory and field courses including a study of type forms. The course will consist of collection trips in the field where the common species of each class are found, classification of familiar forms, study of structure and special parts of interest in connection with each group, with methods of preserving and mounting for immediate use or permanent preservation.

(b) General Botany consisting largely of Morphology and Ecology.

(c) Laboratory course; the work to be arranged.

For further information write for special circular on Lake Laboratory.

#### THE MUSEUMS

THE GEOLOGICAL MUSEUM of the University has been collected and arranged with reference to instruction rather than to display. The basis of it is a large and comprehensive collection of the rocks, fossils and economic minerals of Ohio. The collection embraces the following named series:

(a) An excellent representation of the leading divisions of the geological scale of the State, so far as it can be illustrated by rock specimens. The specimens represent the leading phases of each formation, and in many cases carry the characteristic fossils of the horizons from which they are derived.

(b) A collection of the animal and vegetable fossils of the rocks of Ohio. This series includes a large majority of the described fossils of our formation, and in the number are many type specimens. While all the ages of our geological history are well represented, the collection of the Upper Silurian and Devonian animal fossils is particularly rich and complete. A remarkably fine series of coal plants is also included in the museum. The list of fossils has been greatly extended in the number of species and individuals by the recent purchase of the collection of Mr. Henry Moors, of Columbus.

(c) The economic minerals of the State are also shown to excellent advantage in the museum. The coals, petroleum, iron ores, clay and building stones produced in Ohio are represented in large collections. Many of the specimens upon which chemical examinations or physical tests have been based in the work of the geological survey of the State are included here.

(d) Petrographical collections: These collections were selected with a view to their use in petrographical instruction, and embrace the Hawes collection, the Krantz collection and the Rosenbusch complete series of typical rock specimens from important centers abroad. These hand specimens are supplemented by two series of thin sections, including Voigt and Hochgesang's collections of typical rocks and of the petrographically important minerals.

In addition to the collections above described, the museum contains a great deal of valuable material in the line of general geology and mineralogy. Among other things it includes several valuable suites of ores and many fine mineral specimens.

There also belong to the museum a number of geological casts, models and maps. In this series are included a relief map of the State of Ohio, and also the models of the basins of the Atlantic ocean and Caribbean sea, prepared under the supervision of the United States Coast and Geodetic Survey.

The catalogue of the museum contains more than 10,000 entries; but as only one number is as a rule given to a fossil or a mineral species, the individual speci-



mens make an aggregate list of many thousands in addition to the catalogue list, and probably double this list.

The skeleton of a mastodon, one of the extinct elephants of Ohio, has recently been presented to the museum by N. S. Conway, of Catawba, O., on whose farm it was found. It has been mounted by Prof. H. A. Ward, of Rochester, N. Y., and proves to be one of the largest in the country.

The museum also has a mounted skeleton of *Megalonyx Jeffersonii*, one of the great ground sloths. This specimen has the distinction of being the first and thus far the only mounted skeleton of this animal in the world. The bones were discovered by Abraham Drushell and others in a swamp in Berlin township, in Holmes county, O., in 1890. They were mounted in Ward's Natural Science Establishment, Rochester, N. Y. The entire outlay involved in the purchase of the bones and in mounting them was borne by Mr. Emerson McMillin, of New York.

THE ZOOLOGICAL MUSEUM is located on the ground floor of the wing of Biological Hall. The foundations of a zoological museum have been laid and the work begun on a generous plan. Every effort is being made to secure and preserve excellent specimens in all groups of animals. Not only the adult animals are preserved but the preparatory stages as well, their work and architecture, in fact all that can illustrate the life-history and habits.

Among special features are the Wheaton collection of birds of Ohio, numbering about 1,000 skins; a collection of North American birds, about 1,500 skins, representing very fully the North American fauna; a number of fine specimens of larger mammals, moose, hippopotamus, deer, tiger, peccary, lion, tapir, etc., most of which have been generously donated by Sells Brothers; a collection of about 3,500 molluscan shells; a fine series of Ohio fishes; numerous reptiles, amphibians, etc.

There is an excellent series of skeletons, crania and alcoholic material for courses in comparative anatomy.

The collection of insects is being rapidly enlarged and the purchase of the Kellicott collection of Odonata makes it especially rich in that order.

Professor Osborne's private collection of Hemiptere is deposited in the Department and available to students for comparison and study.

THE BOTANICAL MUSEUM occupies the second floor of Botanical Hall. It contains the University herbariums, both general and state, also Professor Kellerman's private herbarium of over 20,000 specimens deposited for use in the Botanical Department; a complete collection of the native woods of Ohio; a collection of the seeds and fruits of plants; a collection of native medicinal plants; a general collection of vegetable products, including seeds, textile fibres, coloring substances, etc., illustrating economic or applied botany.

THE AGRICULTURAL MUSEUM. For a description of this museum, see BUILDINGS—Townshend Hall.

THE ANATOMICAL AND PATHOLOGICAL MUSEUM. For a description of this museum, see Laboratories and Equipment, Veterinary Medicine.

THE MUSEUM OF CLAY-WORKING AND CERAMICS is now in process of formation. Some excellent specimens of ceramic products have already been collected, and efforts are being made to increase the collection.

ARCHAEOLOGIC COLLECTION. Orton Hall now contains the second best archæologic exhibit in the Ohio Valley, the total number of specimens owned by the Ohio State University, the Ohio State Historical and Archæological Society and by private individuals, amounting to 46,200. Although the Museum is but three years old, it has shown a remarkable growth.

Field work has been carried on in various parts of the State during the summers of 1894, 1895 and 1896, and as a result the contents of more than eighty



mounds, graves and village sites are now on exhibition. The chief exhibits, illustrating the life of ancient tribes are from Fort Ancient in Warren county, from the mound graves of the lower Scioto and from the Muskingum Valley. It is considered that in Ross county aboriginal culture reaches its highest development in the whole Ohio Valley. This fact is well attested by the presence of numerous copper objects, effigy pipes, fine ornaments and ceremonials, pottery, delicate work in polished stone and flint implements, etc.

The collection from the valley of Brush Creek and along the Ohio itself, and from the hill regions of Ohio, show a much lower grade of culture. Careful comparison of the work of man from these localities is exceedingly interesting.

There is an exhibit from Flint Ridge, illustrating the manufacture of arrow and spear heads. The Museum contains nearly 150 specimens of pottery from Missouri and Arkansas, many of which are effigies of animal, bird and human form.

The founders of the Archæologic Museum are arousing public interest in the preservation and study of Ohio antiquities; and by means of exchanges, lectures and personal solicitation, the growth of the collection is considerable.

## LIBRARIES

### THE UNIVERSITY LIBRARY

The University Library is located in the east end of Orton Hall. The system of department libraries prevails to a limited extent, small collections of books specially needed in connection with laboratory and class room work being deposited in several departments.

During term time the Library is open six days in the week, legal holidays being excepted. From Monday until Friday the hours are from 7:30 a. m. until 9:30 p. m.; Saturday from 7:30 a. m. until 4 p. m.

The management of the Library is vested in a Library Council which is composed of the President, the Librarian and the Deans of the six colleges.

### STATE LIBRARIES

Students are privileged in being near the two State libraries.

The Ohio State Library numbers about 70,000 volumes and is a circulating one for all the citizens of Ohio. It occupies a room in the State House.

The State Law Library, also in the State House, is the largest and most complete law library in the State. It contains complete sets of the English, Scotch, Irish, Canadian, United States and State reports, statutes and digests. The important legal periodicals are on file.

### CITY LIBRARIES

The students of the University, as residents of Columbus, have access to the City Library and the Public School Library, under the usual regulations. The City Library numbers 28,000 volumes. It has specially pleasant reading and reference rooms. The Public School Library numbers 35,000 volumes, and is a well selected collection of books. Students will find both libraries valuable in supplementing the University Library.

### SPECIAL LIBRARY IN ECONOMICS

The University possesses a special library in Economics consisting of several hundred volumes and pamphlets. Over thirty financial, commercial and trade-

journals are received and filed regularly. The business men of Columbus have contributed over \$1,200 for the equipment of this commercial library.

#### SPECIAL LIBRARY IN ZOOLOGY AND ENTOMOLOGY

The Department of Zoology and Entomology possesses a special library the nucleus of which was the scientific library of the late Prof. Kellicott which was generously donated to the Department. This has been increased by gifts of special papers by a number of the leading investigators of the country and will be enlarged as rapidly as possible. The private library of the professor is also accessible for reference.

#### AIDS TO MORAL AND RELIGIOUS CULTURE

Chapel services are held daily (except Saturday and Sunday) at the University, at which the attendance of all instructors and students is expected. The services consist of singing, reading the Scriptures, and prayer.

One of the most commendable organizations in the University is a branch of the International Young Men's Christian Association, organized in 1883. It has a large membership and steadily grows in influence. Services are held weekly. New students are made cordially welcome, and young church members will here enjoy Christian influences and fellowship in college life. A University Circle of the International Order of the King's Daughters and Sons holds its meeting once a week, and includes in its membership a majority of the women attending the University. A club for the study and practice of philanthropy has recently been organized by the King's Daughters.

An effort is being made, to complete, by subscription, the fund which was begun two years ago by students, alumni and professors, for the erection of a building to accommodate the student organizations of the University.

#### LITERARY AND OTHER SOCIETIES

The Alcyone Literary Society, open to young men, was founded in 1874; the Horton Literary Society, open to young men, was founded in 1875; the Athenæan Literary Society, open to young men, was founded in the winter of 1896-'97. The Browning Literary Society, founded in 1883, and the Philomathean Literary Society, founded in 1894, are open to young women. These societies have commodious and well furnished apartments in University Hall. They meet weekly, and their work, offering to the student a very desirable training in composition, public speaking, and parliamentary order, is a valuable adjunct to collegiate education.

The Townshend Literary Society was established in 1883 as a technical society under the name of the Kirtland Agricultural Society. In 1894, the name Townshend was substituted. In 1898, the Society changed its constitution so as to admit any student of the University and thus became a literary rather than a technical society. It meets weekly in its commodious and well arranged society room in Townshend Hall.

The Biological Club is an organization of professors and students for mutual assistance and improvement in the line of natural science. Its meetings are regularly held every two weeks, at which papers are read, notes of observation and research presented, and current biological literature discussed.

The Chemical Association, composed of the more advanced students and instructors in the Department of Chemistry and Pharmacy, has for its object the discussion of such subjects as are of importance to students of chemistry, special

stress being placed on recent discoveries. The meetings are held semi-monthly and are of great interest. Both professors and students contribute to each program.

The Political Science Club is an organization of instructors and students in political science and history for the consideration of questions in those fields. At the regular bi-weekly meetings papers are read, researches reported, and current questions and publications in political science, considered and discussed.

The Engineering Society is a similar organization of students and instructors, holding meetings bi-weekly, for the consideration of questions in the various branches of engineering.

The Organic Evolution Club was organized in the winter of 1896-'97 by those students and members of the Faculty especially interested in the study of Evolution. The Zoological Department has a similar club known as the Journal Club.

The O. S. U. Dramatic Club was organized in 1893. Its object is to present each year to the University world one of the standard legitimate dramas. Its membership is confined to University circles.

The musical organizations of the University are: The O. S. U. Glee Club, composed of sixteen members; the O. S. U. Mandoline and Guitar Club of twenty members; the O. S. U. Banjo Club of five members; the O. S. U. Orchestra of fifteen members; the O. S. U. Male Quartet and the University Cadet Band.

The Ornithological Club encourages observation and research in the study of birds and their habits, especially of our native species. The Wheaton collections in the possession of the University forms a basis of study. The programs consist of papers and discussions and reports of observation and personal work. Anyone interested in birds is eligible to membership and visitors are always welcome. The Club meets on the second and fourth Monday evenings of each month.

The O. S. U. Sketch Club has for its purpose the promotion of art interests among the students and ex-students. Any one who is or has been connected with the University in any capacity is eligible to membership. The members meet once a week and sketch from the draped human figure. Twice a month the members present sketches illustrating some word, etc., previously selected. All work is criticised by members of the club for mutual benefit.

The English Club, composed of the instructors and advanced students of the English departments, holds bi-weekly meetings at which new books in current literature are discussed and papers on literary topics are presented.

The William F. Hunter Society, in the College of Law, meets for moot-court practice and quiz-work every two weeks.

## MILITARY SCIENCE AND TACTICS

Under the law of Congress establishing the University, it is required that instruction shall be given in military science and tactics. In accordance with this provision an officer of the regular army has been detailed to take charge of the Department of Military Science and Tactics; and the Trustees have directed that all male students, except those in the Law College, and such others as may be specially excused for physical disability or for having reached the age limit of twenty-five years, shall render two years of cadet service as a condition of graduation. A uniform has been prescribed with which each member is required to provide himself; and fifty minutes a day are devoted to drill, except on those days when instruction in tactics and art of war is given.

The course of instruction is both practical and theoretical. It is given by means of a systematic drill, supplemented by lectures and recitations, and is so



arranged as to occupy five hours per week throughout the year. For purposes of drill, all students enrolled in the Department are organized in a battalion, the officers of which are selected from those students who have shown special proficiency in their University work and the work of the Department. Commissioned officers and non-commissioned officers receive certificates of satisfactory service, issued by the University. A cadet band has been organized in connection with this Department, and is supplied with instruments belonging to the University and to the cadets.

The practical course in infantry embraces all the movements prescribed by the drill regulations of the U. S. Army applicable to a battalion. Instruction in artillery embraces such portions of the United States drill regulations as pertain to the formation of detachments, manual of the piece, mechanical maneuvers and aiming drill. Instruction also includes duties of sentinels, the various ceremonies performed by troops, and military signaling. The theoretical instruction includes a systematic and progressive course in drill regulations of the U. S. Army, the organization and administration of the U. S. Army and the elementary principles governing in the art of war.

Competitive drills are held yearly for two medals; one, the first prize, of gold, presented to the University by the M. C. Lilley Co., of Columbus, Ohio; the other, the second prize, of silver, presented by Lieut. Wilson, when commandant. These medals remain the property of the University, the winner wearing them until the next competition. The "President's Prize" consists of an officers' sword, given to the captain of the company having the best record for attendance for the year.

The equipments of the Department consist of three hundred Springfield cadet rifles and sets of infantry equipment, twenty officers' swords and belts, the necessary equipment for instruction in signaling, and a few instruments for the band.

The U. S. Ordnance Department furnishes an annual allowance of one thousand rounds of ball and one thousand rounds of blank cartridges for cadet rifles.

## PHYSICAL TRAINING

Competent instruction in hygiene and general sanitation is given by the director of the Gymnasium, who has entire charge of the physical training and well-being of all students. Supplementing this work, the practical instruction in military tactics is found to be a most valuable aid. In addition to this, the University grounds afford excellent opportunities for general athletics, and the students support well organized clubs in base ball, foot ball and lawn tennis. These and other sports are participated in by large numbers, and friendly contests are occasionally held with other colleges. Besides the special clubs named above, the students have an athletic association which holds an annual "Field Day," in which prizes are given to the victors in the various contests usual on such occasions.

## OHIO FORESTRY BUREAU

This Bureau has been established and located at the University by the Legislature for the purpose of inquiring into the best means of preserving and utilizing the forests of the State.

## TERMS AND VACATIONS

The first term of the University year 1900-1901 and thereafter will begin on the Tuesday following the sixteenth day of September and will close on the



Wednesday following the 17th day of June. The first term will close on the Wednesday preceding Christmas; the second term will begin on the Tuesday following the first day of January and will close on the Friday preceding the first Monday in April; the third term will begin on the Wednesday following the close of the second term. The second semester will begin on Monday of the eighteenth week preceding commencement week; and the first semester will close on the Friday preceding the opening of the second semester.

Regular college exercises will be suspended from 4 o'clock p. m. of the Wednesday preceding Christmas until 8 o'clock a. m. of the Tuesday following the first day of January; on Thanksgiving and the day following; on University day which is the twenty-second day of February; from 4 o'clock p. m. of the Friday preceding the first Monday in April until 8 o'clock a. m. of the Wednesday following the first Monday in April; and on Memorial Day.

## FEES

### THE COLLEGES

INCIDENTAL FEE.—A charge of fifteen dollars a year is made against all students, under the head of incidental expense. In the case of former students if this fee is not paid until the second day of the term one dollar will be added, and for each succeeding day of delinquency fifty cents will be added.

LABORATORY FEES.—Students in the laboratories and shops are required to pay fees to cover, in part, the cost of the material consumed, and the deterioration of the expensive instruments used by them. The fees charged per term in the laboratories mentioned below are as follows:

Agriculture, 6.....	\$10 00
“ 15.....	5 00
Anatomy and Physiology, 53, 54, 55, 56, 59, 60.....	7 50
“ “ (Vet. Medicine) 4.....	5 00
Botany, 4, 6, 7, 8, 6a.....	2 00
“ 53, 55, 57, 58, 59, 60, 64.....	3 00
“ 56 (half semester).....	1 50
Ceramics, 1, 2, 3, 7, 8.....	1 50
“ 9, 10, 11, 12.....	5 00
Chemistry, 8, 14, 16, 61b, 11, 18, per term \$1 50, per semester.....	2 25
“ 61a Lab.....	1 50
Domestic Science, 1, 2, 3, 4, 11, 12, 13.....	5 00
“ “ 5, 6, 7, 8, 9.....	1 00
Drawing, 7.....	2 00
Elec. Engineering, 4, 5, 4 or 5 hrs., \$7.00; 3 hrs. or less.....	5 00
“ “, 6 and 7 combination.....	5 00
Gymnasium, per term, \$1.00; per semester.....	2 25
Law of Contracts (Engineering).....	5 00
Law when elected 5 hours or less, per semester.....	7 50
Metallurgy, 3, 5, 6.....	1 50
Mechanical Engineering, 12, 13, 14, 15, 16, 17, 23, 24, 25.....	5 00
Pharmacy, 7, 8, 9, 10, 11, 15, 17, 18, 51.....	1 50
Pharmacy, 52.....	2 25
Physics, 5, 6, 7, 9, 3hrs., \$5.00; over 3 hrs.....	7 00
Physics, 55, 56, 57, 58, 60, 3 hrs., \$7.50; over 3 hrs.....	10 50
Shopwork, 4 hrs. or less.....	5 00
Shopwork, 5 hrs. or more.....	7 00

Zoology and Entomology, 53, 54, 55, 56, 61, 62.....	\$7 50
Zoology and Entomology, 57, 58, 59, 60.....	4 50
Zoology and Entomology (Agriculture), 4, 7.....	1 00

The fees of the College of Law are \$30 per semester, including the usual incidental fee.

In the laboratories of the Department of Chemistry and Agricultural Chemistry, each student is required at the beginning of each term to pay a fixed charge of one dollar and fifty cents for gas and water (\$2.25 each semester). He is also required to buy his own supplies, as he needs them, at the general storeroom in Chemical Hall, where laboratory supplies are sold to students at first cost to the University.

*All term dues must be paid at the opening of each term as a condition of admission to classes.*

#### AUDITOR'S FEE

On presentation to the Bursar of the written consent of the head of a department, and on payment to the Bursar of an auditor's fee of one dollar, any person engaged in teaching is permitted to attend, in that department, any class or course (not to exceed three hours a week for one-half year) which is announced to be especially for teachers or those intending to teach.

**GRADUATION FEE.**—A fee of five dollars, to cover expense of graduation, diplomas, etc., is required of each person receiving one of the ordinary degrees from the University, and this fee must be paid before the degree is conferred. A like fee of ten dollars is charged to each person receiving one of the higher graduate degrees.

**FREE SCHOLARSHIP IN AGRICULTURE AND DOMESTIC SCIENCE, AND IN VETERINARY MEDICINE.**—A free scholarship, good for the two-year Courses, or for the First year of the Short Courses and the First year of the four-year Courses in the College of Agriculture and Domestic Science, is granted to one student annually from each county in Ohio. Each scholarship is valid two years from its grant, and covers the incidental fee and all laboratory fees (except gymnasium fee), but the person appointed to receive its benefits is subject to all the other conditions prescribed for admission to the Course. If in any county there is no applicant for the free scholarship in Agriculture, then a free scholarship, good for two years in the College of Veterinary Medicine, may be granted, subject to the same conditions as are prescribed for the free scholarship in Agriculture. The appointments are made by the county boards of agriculture, and are not transferable by the appointees. To learn whether the scholarship of a given county for the current year has been granted, inquiries should be addressed to the Secretary or President of the County Agricultural Society. For further information concerning these scholarships, inquiries should be addressed to the Dean of the College of Agriculture and Domestic Science.

#### THE COLLEGE OF LAW

**INCIDENTAL FEE.**—An incidental fee of fifteen dollars per year is charged to regular undergraduate students.

Upon payment of the incidental fee, law students will be admitted to all the privileges of all the other Colleges of the University, upon the same terms as to admission, discipline, character of studies selected, etc., as other students in the University.

**TUITION FEE.**—In addition to the incidental fee named above, a tuition fee of twenty-two dollars and fifty cents per semester is charged to regular undergraduate students.

GRADUATE FEE.—A graduate fee of fifteen dollars per semester, payable in advance, is charged to all who take the full graduate work.

DIPLOMA FEE.—A fee of five dollars (to cover the expense of graduation, diplomas, certificates, etc.,) is charged to all who receive the diploma or certificate, and a fee of ten dollars is charged to those taking the degree of Master of Laws. These fees must be paid before the degrees are conferred or certificate delivered.

Special students are required to arrange their fees satisfactorily with the Dean or Secretary before being admitted.

OTHER EXPENSES

There are two dormitories on the University grounds for the use of students. Each occupant is charged by the University a rent of a dollar and a half a term.

The South Dormitory affords unfurnished rooms to such students as desire to board themselves, and thus to reduce their expenses to a minimum. The expense of living in this way is about two dollars per week. Applications for rooms should be made to the President of the University.

The North Dormitory will accommodate more than sixty students. Board, furnished rooms, fuel, light and washing are, at present prices, supplied for about three dollars and fifty cents a week. Students will be admitted on special recommendation to the President of the University.

Boarding clubs are also formed in the neighborhood of the University. Furnished rooms are rented at seventy-five cents to one dollar a week for each student, and the cost of table board is two dollars to three dollars a week.

Board with furnished rooms can be obtained in private families, within convenient distances of the University, at rates varying from three and a half dollars to five dollars a week. The ruling rate may be taken as four dollars.

The uniform with which the members of the battalion are required to provide themselves costs (without overcoat) about fourteen dollars. It is quiet in pattern, and is designed to be worn daily in place of civilian dress.

The expenses of a student in the University for a year may be estimated as follows, excluding clothing (except uniform) and traveling expenses:

	Low	Average	High
Incidental fees.....	\$15 00	\$15 00	\$15 00
Laboratory fees.....	15 00	20 00	54 00
Books and stationery.....	15 00	25 00	40 00
Room .....	4 50	37 00	75 00
Furniture .....	10 00	.....	.....
Board .....	70 00	110 00	150 00
Uniform .....	14 00	14 00	14 00
	<hr/> \$143 50	<hr/> \$221 00	<hr/> \$348 00

The second and third estimates for room include light, fuel and care. The third estimate is for a room occupied by a single student. The requirements for laboratory fees and books depend upon the course of study pursued.

SELF-SUPPORT

There is a large amount of work upon the University farm which is assigned to students, preference being given to those who are studying Agriculture. *But the University cannot promise work to all applicants.* Many students find work in private families, in offices, and in various occupations, by means of which they







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defray at least a portion of their expenses. A person of ability and energy, who is master of a trade, or who can do good work of any kind, can generally find remunerative employment. It has seldom been known that any student of ordinary energy and industry was obliged to leave the University because of a lack of money for necessary expenses, *after having been say sixty days on the ground*—or long enough to inform himself as to the opportunities for securing employment. An employment bureau is maintained at the University, where the names of those seeking work and of those desiring workers are recorded.

For further information, address "Executive Office, State University, Columbus, Ohio."



# THE COLLEGES





# THE COLLEGES

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## ADMISSION

The University is open on equal terms to both sexes.

The entrance examinations for 1900 will be held on Monday and Tuesday, June 11 and 12, and on Monday and Tuesday, September 17 and 18. A part of the examinations may be taken in June and the remainder in September. Conditions incurred at the June examinations must be removed at the September examinations.

Applicants for admission to the Colleges of Agriculture, of Arts, Philosophy, and Science, or of Pharmacy, must be at least sixteen years of age; for admission to the College of Engineering or of Veterinary Medicine must be at least seventeen years of age; for admission to the College of Law must be at least eighteen years of age. Each must be provided with credentials of scholarship from his last instructor or from the last institution with which he has been connected, and with a certificate of good moral character.

There are three modes of admission to the University:

1. Certificates of the preparatory departments of Colleges of approved standing and of Normal schools in Ohio are accepted, if found satisfactory, in lieu of examination for preparatory studies, under the following conditions:

Each certificate must contain a detailed statement of the studies pursued, the text books used, the amount of work done in each study, the amount of time devoted to it, the date of the examination, and the applicant's rank or standing in it. A copy of the course of study should accompany the certificate; and both should be sent to the University not later than the first of September. *The University cannot promise this recognition to those certificates presented during entrance week.*

Blank certificates will be furnished on application.

Applicants for admission who come from other Colleges or Universities are required to bring certificates of honorable dismissal.

Teachers' certificates (in force) will be accepted at their face value.

2. From time to time the University approves the courses of study in certain High Schools of the State; and the graduates of these High Schools are admitted on certificates in accordance with following rules:

Rule 17. Upon request from the Board of Education or the Superintendent of Public Schools of any town in Ohio for the inspection of the High School, the Faculty shall appoint a committee of two of its own number to visit such school. This committee shall thoroughly inspect the school to ascertain whether its graduates may be reasonably supposed to possess the necessary qualifications for admission to the University. After such inspection, the committee shall report its conclusions in writing, with the reasons therefor, to the Faculty, which shall then decide by vote whether the graduates of the school shall be admitted without examination, such privilege, if granted, not to extend beyond the period of three years without re-examination of the school.

Rule 94. Such diplomas and certificates shall be accepted in lieu of examination for preparatory studies only under the following conditions:

(a) The certificate must state in detail the studies pursued, the text-books used, the amount of work done in each study, the amount of time devoted to it, the date of the examination in it, and the rank or standing of the candidate in it.

(b) The certificate will be accepted for such studies only, or such part of each, as it shall show to have been satisfactorily accomplished.

(c) Every such certificate must be accompanied with a diploma showing that the candidate has completed the course of study in the school from which he comes. But the General Faculty may except from this condition schools whose work is known to be exceptionally good, provided that the candidate has attended the school two full years.

(d) In case the authorities of any high school, academy or normal school in Ohio desire to have a definite standing fixed for the admission of its graduates, a committee of the General Faculty will visit the school, and on the report of this committee a standing will be fixed for the graduates of the school. Such standing shall not be good, without re-examination, after three years.

(e) Whenever, after a sufficient trial, it becomes evident that the graduates of any school are not adequately prepared, the diploma and certificate of such school will no longer be accepted.

Rule 95. No applicant for admission to the University will be accepted who is deficient or conditioned in required entrance work representing in the aggregate more than one daily recitation for a year. In the case of candidates for admission to the College of Arts, Philosophy and Science, not more than two-thirds of this deficiency may be in any one subject; and in the case of candidates for admission to the College of Engineering, not more than one-third of this deficiency may be in mathematics.

3. All other applicants are subject to examination on the groups of study mentioned below under the headings of those Colleges and Courses in the University which they desire to enter.

*Full equivalents for the text-books named will be accepted.*

## ADMISSION TO SPECIAL STUDIES

Students who desire to pursue special lines of work in any of the Colleges of the University, and do not desire to become candidates for degrees, will be admitted on the following conditions.

Rule 96. Students who desire to pursue special lines of work in the University, and do not desire to become candidates for degrees, will be admitted on the following conditions:

(a) The regular entrance examinations must be satisfied.

(b) But applicants who are not less than twenty-one years of age (eighteen years in the College of Engineering and of Pharmacy), after obtaining credit for the common English branches, may be excused from examination in such studies as may be deemed best by the Executive Committee of the appropriate college; provided, that if any such student afterwards becomes a candidate for a degree he shall pass the omitted examinations at least one year before the degree is conferred.

Rule 97. Students desiring to pursue special lines of work in the University shall, upon admission, lay before the Executive Committee of the appropriate college for approval or modification, a written statement of the end they have in view, the studies proposed for the attainment of that end, and the probable period of residence at the University. Such students shall be held as regularly to their

accepted schemes of work as are regular undergraduates to their prescribed courses of study. Admission will be refused to, or withdrawn from, all of whose definiteness of purpose the Executive Committee fail to receive satisfactory evidence.

### ADMISSION TO ADVANCED STANDING

Rule 98. Applicants for advanced standing who do not come from some other university or college will be examined in the studies preparatory to admission to the appropriate college, and also in such undergraduate studies as they may wish to be credited with in advance. Applicants who have completed at least one years' work in an approved college, and who bring explicit and official certificates describing their courses of study and scholarship, and letters of honorable dismissal, will be admitted without examination, except such as may be necessary in order to determine what credit they are to receive for work done in the college from which they have come, and what courses of study they may with profit pursue in the University.

### GRADUATION

Rule 99. No one will be admitted to candidacy for a degree at any Commencement who has not done the last year of work required for the degree, in residence at this University, and no student will be registered in such candidacy later than the first day of October.

Rule 128. Except by unanimous consent of the Faculty, no candidate for graduation will be recommended for a degree whose record is not in all respects complete by the Friday evening previous to the Commencement Day at which he seeks the degree; and all students shall be notified of this rule at the beginning of their graduation year, and the rule (except the last clause) shall be printed in the annual catalogue.

Rule 137. No candidate for graduation will be permitted to register for the second term or semester of his graduating year except upon presentation to the Bursar, of the President's certificate that his thesis subject has been announced and approved.

### XI. EXAMINATIONS AND STANDING

Rule 111. Students shall be regarded as strictly on probation until they have removed all deficiencies and conditions in entrance requirements.

Rule 112. Students who have any entrance conditions outstanding at the beginning of the third year of residence at the University will not be allowed to join their classes until such conditions have been removed.

Rule 116. The standing of students in each study shall be reported at the end of each term or semester, as "merit," "passed," "conditioned," or "failed." This standing shall be determined by the head of each department by such means and methods as he may choose, but no student shall be reported "failed" without having had the opportunity of a written examination.

Rule 117. The standings "merit" and "passed" indicate that the student has full credit for the term's or semester's work in the study in which this standing is obtained.

Rule 118. The report "credit" (K) shall be used only for work done in regular class at the University.

Rule 119. The standing "conditioned" indicates that credit for the term's or semester's work in the study in which the condition was incurred is withheld. In the following term the student shall be given an opportunity to obtain credit



by a special re-examination; or, if the study be a continuous one, the instructor in charge may, at his discretion, excuse the student from re-examination, and may allow him to obtain credit by pursuing the study successfully during the following term or semester. If the student thus excused from re-examination does not pass upon the work of the second term or semester, he shall be reported as "failed" in the work of both terms or semesters. Any condition that is not removed within one year from the beginning of the term or semester in which it was incurred shall lapse into a "failure."

Rule 120. The standing "failed" indicates that the student has obtained no credit whatever for the term's or semester's work in which the mark is given. The student must, at the first opportunity, repeat in class the study in which he has failed. But a student who has failed in an elective study may be excused from repeating such study by the Executive Committee of his college. In case of failure in any continuous study, the work of the term or semester in which the failure is incurred must be repeated in class before any subsequent term's or semester's work in that study can be commenced. Unexcused absence from any regular examination is construed as a failure therein.

Rule 121. Any student who fails at the end of any term or semester to secure full credit for two-thirds of his work shall be put on probation for the following term or semester with restricted work, and, if similarly delinquent in his studies at any time within the next ten academic months, shall thereby cease to be a member of the University.

Rule 122. If, for any cause, the preparation, progress or success of any student in the work assigned him be found unsatisfactory, the President may remove him from a class or dismiss him from the University.

## ADMISSION TO GRADUATE WORK

Graduates of this or other institutions may, on application to the Faculty, enter the University and pursue such lines of work as may be arranged or approved by the appropriate collegiate committee. Such graduate students are subject to all the ordinary regulations (as to fees, attendance, etc.), prescribed for undergraduates.

### IN THE COLLEGES OF AGRICULTURE AND DOMESTIC SCIENCE, ENGINEERING, LAW AND PHARMACY

Masters degrees are conferred upon graduates in Agriculture, Horticulture and Forestry, Engineering, Law and Pharmacy at the end of not less than one year's residence, which shall be wholly devoted to the completion of an approved course of study in the University. Each is required in addition to present an acceptable thesis upon some subject connected with his course of study.

### IN THE COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

1. The degree of Master of Arts will be conferred upon candidates holding the degree of B. A. or B. Ph. from this University or from other institutions making equivalent requirements for those degrees, upon the satisfactory completion, during not less than one year of residence (devoted exclusively to such work), of an approved course of study, covering a major subject and an allied minor subject. The major subject (two-thirds) shall be graduate work, taken in one of the departments of the Arts, Philosophy and Science College. The minor subject (one-third) may be in graduate work.

2. The degree of Master of Science will be conferred upon candidates holding the degree of B. Sc. from the General Science Course of this University or from institutions making equivalent requirements for this degree, and also upon graduates from the College of Engineering of this University, upon the terms specified for the degree of Master of Arts; except that the major subject must be taken in one of the Departments of Science in the Arts, Philosophy and Science College. The minor subject must be in an allied Science.

3. The degree of Master of Arts will be conferred upon candidates holding the degree of B. A. or B. Ph. and the degree of Master of Science upon candidates holding the degree of B. Sc. from this University or from other institutions making equivalent requirements for these degrees, and the degree of Master of Science will be conferred on graduates from the College of Engineering of this University, on the completion, during not less than one year of residence of a course of study in one or more of the departments of the College of Arts, Philosophy and Science, not less than one-third of which course must be graduate work and not more than two-thirds may be such undergraduate work as is announced to be elective, such course to be subject to the approval of the Executive Committee of the Faculty of the College of Arts, Philosophy and Science. But a degree conferred under the provisions of this paragraph shall in no case be counted towards the degree of Doctor of Philosophy, or Doctor of Science.

4. With the consent of the Faculty the work of candidates for the Master's degree may be distributed over more than one year.

5. Each candidate for a Master's degree must also prepare and submit a thesis, and after its acceptance, be examined upon the work assigned him.

6. The degree of Ph. D. or of D. Sc. will be conferred upon holders of the appropriate baccalaureate degree from this University, or from other institutions making equivalent requirements for the first degree, upon the satisfactory completion of three years of resident graduate work in the Arts, Philosophy and Science College, including thesis and examinations. Holders of the degree of Master of Arts or Master of Science from this University, under the conditions prescribed in paragraph one or two, or from other institutions making equivalent requirements for these degrees, may receive the Doctor's degree on the satisfactory completion of two years of resident graduate work after obtaining the Master's degree. On approval of the Faculty, the work of the first year or of the first two years, of the three, may be done at another University which offers equivalent graduate work.

7. Candidates for the degree of Doctor of Science must take their work wholly in Science.

8. With the consent of the Faculty the work required of candidates for Doctor's degrees may be distributed over more than three years.

## FELLOWSHIPS

To encourage graduates of this University, and of other similar and approved institutions in this state, to continue their work and to complete the courses necessary to second (and other) degrees, the University authorities have established fellowships in several departments. These demand about one-half of the time of the fellow for laboratory instruction or other similar assistance—as far as possible, along the line of his graduate study. The remainder of his time is given to graduate work. The fellowships pay from \$250 to \$300 for the University year.

Rule 151. So far as student work is concerned, Fellows shall be subject to the regulations of the various colleges in regard to graduate students.

Following are the fellowships for the academic year 1899-1900 as far as at present determined:

Anatomy and Physiology, Botany, Chemistry (two), American History and Political Science, Industrial Arts, Mathematics (two), Mechanical Engineering, Philosophy, Rhetoric and English Language, Veterinary Medicine.

In addition to these, Mr. Emerson McMillin has established two fellowships: one in Astronomy, \$300 for the academic year; and one in Economics, \$250 for the academic year. No service is required in these fellowships, and fellows are expected to give their entire time to their graduate work.

Correspondence should be directed to the Executive Office of the University.

## PRIZES

Through the generosity of Hon. William J. Bryan an annual prize of fifteen dollars is offered for the best essay on the principles underlying the form of government of the United States. Competition for this prize is open to all students of the University.

The Edward Thompson Company offer annually to the student writing the best essay on a legal theme selected by the Faculty of the College of Law, the second edition of the English and American Encyclopedia of Law, which includes about thirty volumes.

Other prizes are offered in special departments, for which see department circulars or the heads of the departments.

## GENERAL RULES FOR STUDENTS

Rule 51. Each student shall at the beginning of the year give, in writing, his or her local address to the President, and shall promptly report all subsequent changes of address.

Rule 53. Smoking is prohibited in the halls, basements, and lecture rooms of the University buildings.

Rule 56. The rooms of University student organizations which are located in the University buildings shall not be used for purposes other than the usual exercises of such organization without the previously obtained consent of the General Faculty.

Rule 57. No arrangements or announcements shall be made by students for any public gathering or exercises in the University buildings without the previously obtained consent of the President.

Rule 66. All absences of individual students from the city, for any purpose, involving absence from college exercises, must be accounted for to the President; and in all possible cases permission must be previously obtained.

Rule 86. All students are required to register on the first day of each term or semester.

Rule 88. In the case of former students, if the incidental fee is not paid until the second day of the term or semester, one dollar will be added, and for each succeeding day of delinquency fifty cents will be added.

Rule 89. The assignment of work shall be made and recorded for each student, as shall be determined by the several faculties; but at the beginning of each term or semester, each student's card shall be signed by the Secretary of his College before presentation to the Bursar.



## COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE

## FOR ADMISSION:

The following are the requirements:

1. *Arithmetic, Descriptive and Physical Geography, English Grammar, and United States History.*

2. *English Composition and English Classics.*—Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of several brief essays, of which one will be upon a subject drawn from the applicant's observation or experience, and the others upon topics requiring a knowledge of the following Books, or equivalents: Shakespeare's *Merchant of Venice*, *Julius Caesar* and *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Conciliation with the Colonies*; Macaulay's *Essays on Milton and Addison*; The Sir Roger de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*.

To meet the English requirement the schools should provide courses in composition-practice and courses in English classics extending side by side through the preparatory years.

In the courses in composition, pupils should be afforded regular and abundant practice in preparing narrative, descriptive, expository and argumentative themes, and should be familiarized with those principles of Rhetoric which are most helpful in composition, such as the principles of sentence-structure, outlining, paragraphing, and choice of words. Scott and Denney's *Composition-Rhetoric* is recommended as a guide. The study of specimens of bad English from a text-book is not recommended; in order to insure accuracy, a considerable amount of the written work of the pupils should be corrected by the teacher and revised and rewritten by the pupils themselves. Some of the composition-work may be based upon the reading prescribed above, but much of it should be based upon the observation and experience of the pupils.

In the course in English classics, pupils should read the prescribed books with sufficient care to become familiar with the plot, incidents, and characters of all of them and should also learn something of their authors and of their places in literary history. A few of these books, or portions of all of them, should be examined closely with reference to form, structure, method, language, and leading characteristics of style. The voluntary outside reading of additional books should be encouraged by the teacher. In connection with all of the reading it is recommended that the memorizing of notable passages of prose and poetry be required.

3. *Algebra*—Venable's Easy Algebra, complete.

4. *Botany*—Gray or Kellerman's Elementary Botany and Spring Flora, or equivalent.

7. *Latin*—Pronunciation (the Roman method): Grammar (an exact knowledge of the inflections is essential); Cæsar, the first four books of the *De Bello Gallico*.

Or *French*—The whole subject of French Grammar. Applicants will be expected to read at sight easy French and to translate correctly into French simple English sentences. Two years ought to be given to this study, the first year being spent mainly on the Grammar with easy reading; the second devoted to reading good Modern French, with grammatical analysis and exercises in writing. The texts read should be chiefly narrative and conversational prose; one or more prose comedies of the nineteenth (not the seventeenth) century should be included.

Or *German*—Joynes-Meissner's or Thomas's Grammar is recommended. The essentials in these grammars should have been mastered thoroughly, i. e., declensions of nouns and adjectives, pronouns, comparison of adjectives, prepositions, regular and irregular verbs and essentials of syntax.



The following books or their equivalents must have been read (not less than 600 pages.)

Joynes's or Whitney's Reader, Hillern, Höher als die Kirche, Riehl, Der Fluch der Schönheit, Freytag, Die Verlorne Handschrift, Gerstäcker Irrfahrten.

Until the year 1902, the *German* or *French* required for admission may be begun at the University, but without University credits. For the year 1902 and thereafter, the full requirements as above stated will be held to.

5. *Plane Geometry*—White, Venable, Wentworth, or Wells.
6. *Physics*—Gage, Carhart and Chute, Avery, or Appleton.
7. Either of the following:  
*Civil Government*—Fisk or Thorpe preferred.  
*History*—Myers's *General History*.

## OUTLINE OF THE COURSE IN AGRICULTURE

Note—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

### FIRST YEAR

#### REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1)	5.	Agr'l Chemistry (8)	5.	Agr'l Chemistry (9)	5.
Principles.		Organic.		Applications.	
Botany (6)	5.	Botany (7)	5.	Botany (8)	5.
Physiological.		Physiological and Economic.		Economic Botany and Vegetable Pathology.	
Drawing (10)	2.				
Rhetoric (5)	2½.	Rhetoric (5)	2½.	Rhetoric (5)	2½.
English Composition.		English Composition.		English Composition.	
		Shopwork (1)	3.		
Zoology (1)	3.	Zoology (1)	3.	Zoology (1)	3.
Invertebrate.		Invertebrate.		Vertebrate.	
Cadet Service (men).*		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

### SECOND YEAR

#### REQUIRED

Agriculture (8)	4.	Agriculture (9)	4.	Agriculture (10)	4.
Breeds of Live Stock.		Principles of Breeding.		Stock Feeding.	
Agr'l Chemistry (4)	5.	Agr'l Chemistry (4)	5.	Agr'l Chemistry (4)	5.
Laboratory.		Laboratory.		Laboratory.	
Horticulture (1)	4.	Shopwork (2)	3.	Horticulture (1)	4.
Elements.		Physiology (1)	3.	Plant Propagation.	
Physiology (1)	3.	Physiology.		Physiology (1)	3.
Anatomy.		Zoology (4)	2.	Physiology.	
Zoology (2)	4.	Economic Entomology.		Zoology (4)	2.
Economic Entomology.		Cadet Service (men).		Economic Entomology.	
Cadet Service (men).		Hygiene and Physical Training (women).		Cadet Service (men).	
Hygiene and Physical Training (women).				Hygiene and Physical Training (women).	

\* A rule of the Board of Trustees requires each male student (except students in the College of Law) to render two years' cadet service as a condition of graduation. Students physically incapacitated for cadet service will be assigned an equivalent in special gymnasium work. The President has authority to excuse from cadet service under certain conditions.

Young women are required to carry Hygiene and Physical Training in place of cadet service.

## THIRD YEAR

		REQUIRED			
FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agriculture (11)	4.	Agriculture (12)	4.	Agriculture (13)	4.
Farm Equipment.		Soils.		Crops.	
†French (1)	} 4.	†French (1)	} 4.	Drawing (16)	3.
Elementary,		Elementary,		†French (1)	} 4.
or		or		Elementary,	
†German (1)		†German (1)		†German (1)	} 4.
Elementary.		Elementary.		Elementary.	
Geology (2)	5.	Geology (5)	3.	Astronomy (3)	2.
General.		General.		Meteorology.	
Veterin'y Medicine (28)	5.	Veterin'y Medicine (29)	5.	Veterin'y Medicine (30)	5.
		General Pathology.		Special Pathology.	

## FOURTH YEAR

		REQUIRED			
Agriculture (14)	4.	Agriculture (15)	4.	Agriculture (16)	4.
Animal Mechanics.		Dairy.		Rural Economics.	
History (5)	4.	History (5)	4-2.	Economics (2)	4.
U. S. Political.		U. S. Political.		Political Economy.	
		Economics (2)	4-2.		
		Political Economy.			

## ELECTIVE

Ten hours a week through the year, including two hours for thesis, chosen from any of the courses given in any College of the University upon which the student is qualified to enter; except in the College of Law.

## THESIS

As a requisite for graduation each candidate must present an acceptable thesis embodying the results of a special research. The subject must be announced to the President of the University (dependent upon the written approval of the head of the department in which it lies) not later than the beginning of the second term of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

† Where credit is received for Elementary French or German, French (2) 4 hours or German (4) 4 hours is required.

## OUTLINE OF THE COURSE IN HORTICULTURE AND FORESTRY

### FIRST YEAR

#### REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1)	5.	Agr'l Chemistry (8)	5.	Agr'l Chemistry (9)	5.
Principles.		Organic.		Applications.	
Botany (6)	5.	Botany (7)	5.	Botany (8)	8.
Physiological.		Physiological Economic.		Economic Botany.	
				Vegetable Pathology.	
Drawing (10)	2.				
Rhetoric (5)	2½.	Rhetoric (5)	2½.	Rhetoric (5)	2½.
English Composition.		English Composition.		English Composition.	
		Shopwork (1)	3.		
Zoology (1)	3.	Zoology (1)	3.	Zoology (1)	3.
Invertebrate.		Invertebrate.		Vertebrate.	
Cadet Service (men).		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical		Hygiene and Physical		Hygiene and Physical	
Training (women).		Training (women).		Training (women).	

### SECOND YEAR

#### REQUIRED

Agr'l Chemistry (4)	5.	Agr'l Chemistry (4)	5.	Agr'l Chemistry (4)	5.
Laboratory.		Laboratory.		Laboratory.	
*French (1)	4.	French (1)	4.	French (1)	4.
Elementary,		Elementary,		Elementary,	
or		or		or	
*German (1)	4.	German (1)	4.	German (1)	4.
Elementary.		Elementary.		Elementary.	
Horticulture (1)	4.	Shopwork (2)	3.	Horticulture (1)	4.
Elements.				Plant Propagation.	
Physiology (1)	3.	Physiology (1)	3.	Physiology (1)	3.
Anatomy.		Physiology.		Physiology.	
Zoology (4)	2.	Zoology (4)	2.	Zoology (4)	2.
Economic Entomology.		Economic Entomology.		Economic Entomology.	
Cadet Service (men).		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical		Hygiene and Physical		Hygiene and Physical	
Training (women).		Training (women).		Training (women).	

### THIRD YEAR

#### REQUIRED

Agriculture (11)	4.	Agriculture (12)	4.	Agriculture (13)	4.
Farm Equipment.		Soils.		Crops.	
				Astronomy (3)	2.
French (2)	4.	French (2)	4.	Meteorology.	
German (4)		German (4)		Drawing (16)	3.
General.		Geology (5)	3.	French (2)	4.
Geology (2)	5.	General.		German (4)	
Horticulture (5)	4.	Horticulture (6)	4.	Zoology (4)	8.
Varieties of Fruit.		Principles of Fruit		Economic Entomology.	
		Culture.		Horticulture (7)	4.
				Small Fruits and	
				Spraying.	

† Where credit is received for Elementary French or German, French (2) 4 hours or German (4) 4 hours is required.

## FOURTH YEAR

## REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Horticulture (8)	2.	Horticulture (9)	2.	Horticulture (10)	2.
Elementary Floriculture		Commercial Floriculture		Home Floriculture.	
Horticulture (11)	2.	Horticulture (12)	2.	Horticulture (13)	2.
Arboriculture.		Forestry and Sylviculture.		Landscape Gardening.	
History (5)	4.	History (5)	4-2.	Economics (2)	4.
U. S. Political.		U. S. Political.		Political Economy.	
		Economics (2)	4-2.		
		Political Economy.			

## ELECTIVE

Ten hours a week through the year, including two hours for thesis, chosen from any of the courses given in any College of the University upon which the student is qualified to enter; except in the College of Law.

## THESIS

As a requisite for graduation each candidate must present an acceptable thesis embodying the results of a special research. The subject must be announced to the President of the University (dependent upon the written approval of the head of the department in which it lies) not later than the beginning of the second term of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.



## OUTLINE OF THE COURSE IN DOMESTIC SCIENCE

## FIRST YEAR

## REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1) Principles.	5.	Agr'l Chemistry (8) Organic.	5.	Agr'l Chemistry (9) Applications.	5.
Botany (6) Physiological.	5.	Botany (7) Physiological and Economic.	5.	Botany (8) Economic Botany. Vegetable Pathology.	5.
Drawing (1)	2.	Drawing (1)	2.	Drawing (1)	2.
Rhetoric (5) English Composition.	2½	Rhetoric (5) English Composition.	2½.	Rhetoric (5) English Composition.	2½.
Zoology (1) Invertebrate.	3.	Zoology (1) Invertebrate.	3.	Zoology (1) Invertebrate.	3.
Hygiene and Physical Training.		Hygiene and Physical Training.		Hygiene and Physical Training.	

## SECOND YEAR

## REQUIRED

Agr'l Chemistry (4) Laboratory.*	5.	Agr'l Chemistry (4) Laboratory.*	5.	Physiology (3) Chemical Physiology.	3.
Domestic Economy (1)	4.	Domestic Economy (2)	4.	Physiology (10)	2.
Drawing (10) Mechanical.	2.	Drawing (15) Architectural.	2.	Domestic Economy (3)	4.
†French (1) Elementary, or	4.	French (1) Elementary, or	4.	Drawing (15) House Designing.	2.
†German (1) Elementary.		German (1) Elementary.		French (1) Elementary, or	4.
Physiology (1)	3.	Physiology (1)	3.	German (1) Elementary.	
Hygiene and Physical Training.		Hygiene and Physical Training.		Physiology (1)	3.
				Hygiene and Physical Training.	

## THIRD YEAR

## REQUIRED

Domestic Economy (4)	4.	Domestic Economy (5)	4.	Domestic Economy (6)	4.
French (2) or	4.	French (2) or	4.	French (2) or	4.
German (4)		German (4)		German (4)	
History (5) U. S. Political.	4.	History (5) U. S. Political.	4-2.	Economics (2) Political Economy.	4.
Education (1)	4.	Economics (2) Political Economy.	4-2.	English Literature (3)	4.
		Education (1)	4-2.		
		English Literature (2)	4-2.		

Elective: Two hours a week, through the year.

## FOURTH YEAR

## REQUIRED

Domestic Economy (7)	4.	Domestic Economy (8)	4.	Domestic Economy (9)	4.
Horticulture (8) Elements of Floriculture.	2.	Horticulture (9) Commercial Floriculture.	2.	Horticulture (10) Home Floriculture.	2.

\* Specific laboratory work will be provided for students in this course, where necessary.

† Where credit is received for Elementary French or German, French (2) 4 hours or German (4) 4 hours is required.

## ELECTIVE

Ten hours a week through the year chosen from any of the courses given in any college of the University upon which the student is qualified to enter; except in the College of Law.

## THESIS

As a requisite for graduation each candidate must present an acceptable thesis embodying the results of a special research. The subject must be announced to the President of the University (dependent upon the written approval of the head of the department in which it lies) not later than the beginning of the second term of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

## THE SHORT COURSES

A two-year course in Agriculture and a two-year course in Domestic Economy have been provided for those who have neither the time nor the means to pursue four-year courses. These short courses also enable those who lack the preparation for entering the four-year courses to obtain such preparation. The studies of the first year of the short courses, it will be noticed, nearly prepare the student to enter the first year of the four-year courses. The student having had chemistry in the first year of a short course can finish his preparation for either of the four-year courses during the first year of the latter course, in place of the chemistry required.

At the end of the first year of the Short Course in Agriculture, for example, the student has three strings to his bow. He may finish the second year of the short course by taking the more technical studies from the four-year courses, if lack of time or means demand it; or he may enter either the four-year course in Agriculture or the four-year course in Horticulture and Forestry. The same is practically true of the Short Course in Domestic Economy.

These short courses are not, of course, to be compared in breadth, strength, or thoroughness with the full courses of the University. They are far better preparation for the work to which they lead than no preparation; but all students are urged to take or to continue into the full four-year courses wherever possible.

## ADMISSION TO THE SHORT COURSES IN AGRICULTURE AND DOMESTIC ECONOMY AND THE COURSE IN DAIRYING

Applicants must be at least fifteen years of age, and unless over twenty-one years of age must pass an examination in *Arithmetic*, *Geography*, *Grammar* and *United States History*, or bring High School or other certificates for those branches. Applicants who are over twenty-one are admitted without examination.

## OUTLINE OF THE SHORT COURSE IN AGRICULTURE

### FIRST YEAR

		REQUIRED			
FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1)	5.	Agr'l Chemistry (8)	5.	Agr'l Chemistry (9)	5.
Principles.		Organic.		Applications.	
Mathematics (1)	5.	Mathematics (3)	5.	Botany (1)	5.
Algebra.		Geometry.		Elementary.	
Physics (1)	5.	Physics (1)	5.	Geology (1)	5.
Elementary.		Elementary.		Physiography.	
Drawing (10)	2.	Shopwork (1)	3.	Physiology (2)	3.
Mechanical.				General.	
Cadet Service.		Cadet Service.		Cadet Service.	

### SECOND YEAR

Not less than fifteen hours per week through the year; chosen from any of the following courses subject to conditions named under "Departments of Instruction."

Agriculture (8)	4.	Agriculture (9)	4.	Agriculture (10)	4.
Breeds of Live Stock.		Principles of Breeding.		Stock Feeding.	
Agriculture (11)	4.	Agriculture (12)	4.	Agriculture (13)	4.
Farm Equipment.		Soils.		Crops.	
Agriculture (17)	3.				
Milk Sanitation.					
Botany (6)	5.	Agriculture (15)	4.	Zoology (7)	3.
Physiological.		Dairy.		Entomology.	
Horticulture (1)	4.	Horticulture (1)	4.	Horticulture (1)	4.
Elements.		Greenhouse Construction.		Plant Propagation.	
		Shopwork (2)	3.		
Veterinary Medicine (28)	5.	Veterinary Medicine (29)	5.	Veterinary Medicine (30)	5.
Anatomy.		General Pathology.		Special Pathology.	
Horticulture (5)	4.	Horticulture (6)	4.	Horticulture (7)	4.
Varieties of Fruit.		Principles of Fruit Culture.		Small Fruits and Spraying.	
		Physiology (6)	2.		
Cadet Service.		Cadet Service.		Cadet Service.	

### COURSE IN DAIRYING

The course in dairying begins each year on the Wednesday following the first day of January, and continues during the entire term. Butter-making, as practiced in the farm dairy and in the creamery, is thoroughly taught. The student performs all necessary operations in the manufacture of butter by these two methods, under the guidance of the instructors. In cheese-making the principles are taught, with elementary practice.

Agriculture (5). Dairy Farming.—Three hours each week. Lectures and recitations on breeds, breeding, feeding, selection and judging of dairy stock, equipment and management of dairy farms.

Agriculture (6). Butter and Cheese-making.—Four half days each week. Laboratory practice in running separator, churning, working butter, making cheese, milk testing, etc.

- Agriculture (7). Butter and Cheese-making.—Two hours each week. Lectures and recitations.
- Agricultural Chemistry (7). Milk Chemistry and Milk Testing.—Two hours each week. Lectures and laboratory practice.
- Physiology (6). Bacteria in their relation to Milk, Butter and Cheese.—Two hours each week. Lectures and laboratory practice.
- Veterinary Medicine (17). Diseases of the Cow.—Three hours each week.
- Mechanical Engineering (26). Steam Machinery.—One hour each week.

## SHORT COURSE IN DOMESTIC SCIENCE

### FIRST YEAR

#### REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1) Principles.	5.	Agr'l Chemistry (8) Organic.	5.	Agr'l Chemistry (9) Applications.	5.
Physics (1) Elementary.	5.	Physics (1) Elementary.	5.	Botany (1) Elementary.	5.
French (1) or German (1)	} 4.	French (1) or German (1)	} 4.	French (1) or German (1)	} 4.
Rhetoric (5)		Rhetoric (5)		Rhetoric (5)	
English Composition.	2½.	English Composition.	2½.	English Composition.	2½.
Hygiene and Physical Training.		Hygiene and Physical Training.		Hygiene and Physical Training.	

### SECOND YEAR

#### REQUIRED

Domestic Economy (1)	4.	Domestic Economy (2)	4.	Domestic Economy (3)	4.
Domestic Economy (4)	4.	Domestic Economy (5)	4.	Domestic Economy (6)	4.
Hygiene and Physical Training.		Hygiene and Physical Training.		Hygiene and Physical Training.	

#### ELECTIVE

Not less than seven hours per week through the year; chosen from any of the following courses subject to conditions named under "Departments of Instruction."

Botany (6) Physiological.	5.	Botany (7) Physiological and Economic.	5.	Botany (8) Economic Botany. Vegetable Pathology.	5.
Drawing (1)	2.	Drawing (1)	2.	Drawing (1)	2.
Education (1)	4.	Education (1)	4-2.	English Literature (2)	4.
Horticulture (8) General Floriculture.	2.	English Literature (2)	4-2.	Horticulture (10) Home Floriculture.	2.
Zoology (1) Invertebrate.	3.	Horticulture (9) Commercial Floriculture.	2.	Zoology (1) Vertebrate.	3.
		Zoology (1) Invertebrate.	3.		



## COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

FOR ADMISSION TO THE COURSE IN ARTS<sup>1</sup>

The following are the requirements:

1. *Arithmetic, Descriptive and Physical Geography, English Grammar, and United States History.*

2. *English Composition and English Classics.*—Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of several brief essays, of which one will be upon a subject drawn from the applicant's observation or experience, and the others upon topics requiring a knowledge of the following books, or equivalents: Shakespeare's *Merchant of Venice*, *Julius Caesar*, and *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Conciliation with the Colonies*; Macaulay's *Essays on Milton and Addison*; The Sir Roger de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*.

To meet the English requirement the schools should provide courses in composition-practice and courses in English classics extending side by side through the preparatory years.

In the courses in composition, pupils should be afforded regular and abundant practice in preparing narrative, descriptive, expository and argumentative themes, and should be familiarized with those principles of Rhetoric which are most helpful in composition, such as the principles of sentence-structure, outlining, paragraphing, and choice of words. Scott and Denney's *Composition-Rhetoric* is recommended as a guide. The study of specimens of bad English from a text-book is not recommended; in order to insure accuracy, a considerable amount of the written work of the pupils should be corrected by the teacher and revised and rewritten by the pupils themselves. Some of the composition-work may be based upon the reading prescribed above, but much of it should be based upon the observation and experience of the pupils.

In the course in English classics, pupils should read the prescribed books with sufficient care to become familiar with the plot, incidents, and characters of all of them and should also learn something of their authors and of their places in literary history. A few of these books, or portions of all of them, should be examined closely with reference to form, structure, method, language, and leading characteristics of style. The voluntary outside reading of additional books should be encouraged by the teacher. In connection with all of the reading it is recommended that the memorizing of notable passages of prose and poetry be required.

3. *Algebra*—Taylor's *Academic* or equivalent.

4. *Botany*—Kellerman's *Elementary Botany* and *Spring Flora* or equivalent.

5. *Civil Government*—Fiske or Thorpe preferred.

6. *Geometry, Plane and Solid*—Venable, White, Wentworth or Wells.

7. *Greek*—Grammar (Goodwin's preferred) and Prose Composition; or the first 100 lessons of White's *Beginner's Greek Book*. Reading: The first three books of Xenophon's *Anabasis*. At least two years should be devoted to this work.

8. *History*—Either Myers's *General History* (or equivalent); or, if the teacher's training and the school library will warrant, *Greek and Roman History* on the topical method. A circular concerning the topical method will be sent on application.

9. *Latin*—Pronunciation (the Roman method); Grammar (an exact knowledge of the inflections is essential); Cæsar, the first four books of the *De Bello Gallico*; Cicero, six orations, including *Pro Lege Manilia*; Vergil, the first six books of the *Aeneid*, with Prosody; Prose Composition, Daniell or Collar or Jones or Dodge and Tuttle, entire.

### 10. *Physics*—Carhart and Chute, Gage, Avery, or Appleton.

For the present, the *Greek* required for admission may be begun at the University, but without University credits.

#### TO THE LATIN COURSE IN PHILOSOPHY

The requirements are the same as for admission to the Course in Arts; except that instead of *Greek*, the applicant must offer *French* or *German*, as follows:

*French*.—The requirements under this head are those of the elementary course or grade of preparatory instruction, as formulated in the "Report of the Committee of Twelve of the Modern Language Association of America," and are here stated in the terms of that report.

Applicants should be able to pronounce French accurately, to read at sight easy French prose, to put into French simple English sentences taken from the language of everyday life, or based upon a portion of the French text read, and to answer questions on the rudiments of the grammar as defined below.

Two years should be given to this preparation.

During the first year the work should comprise: (1) Careful drill in pronunciation; (2) the rudiments of grammar, including the inflection of the regular and the more common irregular verbs, the plural of nouns, the inflection of adjectives, participles and pronouns; the use of personal pronouns, common adverbs, prepositions and conjunctions; the order of words in the sentence, and the elementary rules of syntax; (3) abundant easy exercises, designed not only to fix in the memory the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (4) the reading of from 100 to 175 duodecimo pages of graduated texts, with constant practice in translating into French easy variations of the sentences read (the teacher giving the English), and in reproducing from memory sentences previously read; (5) writing French from dictation.

During the second year the work should comprise: (1) The reading of from 250 to 400 pages of easy modern (nineteenth century) prose in the form of stories, plays or historical or biographical sketches; (2) constant practice, as in the previous year, in translating into French easy variations upon the texts read; (3) frequent abstracts, sometimes oral and sometimes written, of portions of the text already read; (4) writing French from dictation; (5) continued drill upon the rudiments of grammar, with constant application in the construction of sentences; (6) mastery of the forms and use of pronouns, pronominal adjectives, of all but the rare irregular verb forms, and of the simpler uses of the conditional and subjunctive.

#### *German* —

##### (a) The Aim of the Instruction.

At the end of the elementary course in German the pupil should be able to read at sight, and to translate, if called upon, by way of proving his ability to read, a passage of very easy dialogue or narrative prose, help being given upon unusual words and constructions; to put into German short English sentences taken from the language of every-day life or based upon the text given for translation, and to answer questions upon the rudiments of grammar as defined below.

##### (b) The Work to be Done.

During the first year the work should comprise: (1) Careful drill upon pronunciations; (2) the memorizing and frequent repetition of easy colloquial sentences; (3) drill upon the rudiments of grammar, that is, upon the inflection of the articles, of such nouns as belong to the language of every-day life, of adjectives, pronouns, weak verbs, and the more usual strong verbs, also upon the use of the more common prepositions, the simpler uses of the model auxiliaries, and the elementary rules of syntax and word-order; (4) abundant easy exercises.

designed not only to fix in mind the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (5) the reading of from 75 to 100 pages of graduated texts from a reader, with constant practice in translating into German easy variations upon sentences selected from the reading lesson (the teacher giving the English), and in the reproduction from memory of sentences previously read.

During the second year the work should comprise: (1) The reading of from 150 to 200 pages of literature in the form of easy stories and plays; (2) accompanying practice, as before, in the translation into German of easy variations upon the matter read, and also in the off-hand reproduction, sometimes orally and sometimes in writing, of the substance of short and easy selected passages; (3) continued drill upon the rudiments of the grammar, directed to the ends of enabling the pupil, first, to use his knowledge with facility in the formation of sentences, and, secondly, to state his knowledge correctly in the technical language of grammar.

Until the year 1902, the *German* or *French* required for admission may be begun at the University, but without University credits. For the year 1902 and thereafter, the full requirements as above stated will be held to.

#### TO THE MODERN LANGUAGE COURSE IN PHILOSOPHY

The requirements are the same as for admission to the course in Arts; except that instead of *Latin* and *Greek*, the applicant may offer *Latin* and *French*, or *Latin* and *German*, or *French* and *German*, in the amounts specified above.

Until the year 1902, either the *French* or the *German* (but not both), required for admission may be begun at the University, but without University credits. For the year 1902, and thereafter, the full requirements as above stated will be maintained.

#### TO THE ENGLISH COURSE IN PHILOSOPHY

The requirements are the same as for admission to the Modern Language Course in Philosophy. But in place of one of the foreign languages the applicant may offer the following group:

1. *Chemistry*—Williams or Remsen.
2. *English Literature*—Pancoast's Introduction to English Literature and an acquaintance with representative works in each period; or, *English History*—Montgomery.
3. *Physiology*—Martin (briefer course).

Until the year 1902, one modern language required for admission may be begun at the University, but without University credits. For the year 1902, and thereafter, the full requirements as stated above will be held to.

#### TO THE COURSE IN COMMERCE AND ADMINISTRATION

The requirements are the same as for admission to the Modern Language Course in Philosophy.

#### TO THE COURSE IN SCIENCE

The requirements are the same as for admission to the Modern Language Course in Philosophy.

#### TO GRADUATE WORK

1. The degree of Master of Arts will be conferred upon candidates holding the degree of B. A. or B. Ph. from this University or from other institutions making equivalent requirements for those degrees, upon the satisfactory completion, during not less than one year of residence (devoted exclusively to such work), of an



approved course of study, covering a major subject and an allied minor subject. The major subject (two-thirds) shall be graduate work, taken in one of the departments of this (the Arts, Philosophy and Science) College. The minor subject (one-third) may be in graduate work.

2. The degree of Master of Science will be conferred upon candidates holding the degree of B. Sc. from the General Science Course of this University, or from institutions making equivalent requirements for this degree, and also upon graduates from the College of Engineering of this University, upon the terms specified for the degree of Master of Arts; except that the major subject shall be taken in one of the Departments of Science in this (the Arts, Philosophy and Science) College. The minor subject shall be in an allied Science.

3. The degree of Master of Arts will be conferred upon candidates holding the degree of B. A. or B. Ph. and the degree of Master of Science upon candidates holding the degree of B. Sc. from this University, or from other institutions making equivalent requirements for these degrees, and the degree of Master of Science will be conferred on graduates from the College of Engineering of this University, on the completion, during not less than one year of residence, of a course of study in one or more of the departments of this College, not less than one-third of which course shall be graduate work and not more than two-thirds may be such undergraduate work as is announced to be elective, such course to be subject to the approval of the Executive Committee of the Faculty of this College. But a degree conferred under the provisions of this paragraph shall in no case be counted towards the degree of Doctor of Philosophy, or Doctor of Science.

4. With the consent of the Faculty the work of candidates for Master's degree may be distributed over more than one year.

5. Each candidate for a Master's degree must also prepare and submit a thesis, and, after its acceptance, be examined upon the work assigned him. The regulations as to undergraduate theses apply to theses for Master's degree also.

6. The degree of Ph. D., or of D. Sc., will be conferred upon holders of the appropriate baccalaureate degree from this University, or from other institutions making equivalent requirements for the first degree, upon the satisfactory completion of three years of resident graduate work in the Arts, Philosophy and Science College, including thesis and examinations. Holders of the degree of Master of Arts or Master of Science from this University, under the conditions prescribed in paragraph one or two, or from other institutions making equivalent requirements for these degrees, may receive the Doctor's degree on the satisfactory completion of two years of resident graduate work after obtaining the Master's degree. On approval of the Faculty, the work of the first year, or of the first two years, of the three, may be done at another University which offers equivalent graduate work.

7. Candidates for the degree of Doctor of Science shall take their work wholly in Science.

8. With the consent of the Faculty the work required of candidates for Doctor's degrees may be distributed over more than three years.



## COURSE IN ARTS

*Degree: Bachelor of Arts*

## FIRST YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
Greek (51)	4.	Greek (52)	4.
Xenophon.		Herodotus, Homer.	
Latin (51)	4.	Latin (52)	4.
Cicero.		Livy, Horace.	
Mathematics (67)	3.	Mathematics (68)	3.
Algebra, Analytics, Calculus.		Trigonometry, Analytics, Calculus.	
Rhetoric (51)	2½	Rhetoric (52)	2½.
Composition.		Composition.	
Cadet Service (men).*		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

One of the following (the choice being for the year):

Botany (51) or (57)	3.	Botany (52) or (58)	3.
Botany (55)	4.	Zoology (64)	4.
Systematic and Physiological.		Comparative.	
Chemistry (51)	3.	Chemistry (52)	3.
Inorganic.		Inorganic.	
Physics (51) or (53)	3.	Physics (52) or (54)	3.
Mechanics, Heat, etc.		Electricity, Magnetism, etc.	
Zoology (51)	3.	Zoology (52)	3.
Comparative Zoology.		Comparative Zoology.	

## SECOND YEAR

FIRST SEMESTER	hours Credit	SECOND SEMESTER	hours Credit
Greek (53)	4.	Greek (54)	4.
Lysias.		Homer, Plato.	
†History (55)	} 4.	Economics (52)	} 4.
United States		Elementary	
or		or	
†Economics (51)	} 4.	History (56)	} 4.
Elementary.		United States	
Latin (53)	4.	Latin (54)	4.
Horace, Pliny.		Tacitus, Juvenal.	
English Literature (51)	4.	Rhetoric (54)	4.
Introductory.		Analysis of Prose.	
Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

## THIRD YEAR

Philosophy (51)	4.	Philosophy (52)	4.
Psychology.		Logic and Ethics.	
*Major Study	4.	Major Study	4.

## ELECTIVE

Eight hours a week through the year—chosen from the courses in this College (See "The Departments," page 119); *except* that, not earlier than the third

\* A rule of the Board of Trustees requires each male student (except students in the College of Law) to render two years' cadet service as a condition of graduation. Students physically incapacitated for cadet service will be assigned an equivalent in special gymnasium work. The President has authority to excuse from cadet service under certain conditions.

Young women are required to carry Hygiene and Physical Training in place of cadet service.

year, studies equivalent to five hours a week for one year may be chosen from any course or courses taught in the University; provided that the studies chosen are such as the student is qualified to pursue.

## FOURTH YEAR

*Major Study	5.	Major Study	5.
Electives (as in third year)	10.	Electives (as in third year)	10.

## THESIS

At the beginning of the Senior year, each student in this Course will take up as thesis work some special line of inquiry within the field of his major study, subject to the approval of the professor in charge of the department, and must devote to it two hours per week, or its equivalent, independently of his other work. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the beginning of the second semester of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

## LATIN COURSE IN PHILOSOPHY

*Degree: Bachelor of Philosophy*

## FIRST YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
French (51)	4.	French (52)	4.
Elementary, or (55)		Prose and Plays	
or	4.	or	4.
German (51)		German (52)	
Elementary, or (55)		Elementary, or (56)	
Latin (51)	4.	Latin (52)	4.
Cato, Cicero.		Livy, Horace.	
Mathematics (67)	3.	Mathematics (68)	3.
Algebra, Analytics, Calculus.		Trigonometry, Analytics, Calculus.	
Rhetoric (51)	2½.	Rhetoric (52)	2½.
Composition.		Composition.	
Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

One of the following (the choice being for the year):

Botany (51) or (57)	3.	Botany (52) or (58)	3.
Botany (55)	4.	Zoology (64)	4.
Systematic and Physiological.		Comparative.	
Chemistry (51)	3.	Chemistry (52)	3.
Inorganic.		Inorganic.	
Physics (51) or (53)	3.	Physics (52) or (54)	3.
Mechanics, Heat, etc.		Electricity, Magnetism, etc.	
Zoology (51)	3.	Zoology (52)	3.
Comparative Zoology.		Comparative Zoology.	

\* Major Study. Not later than the beginning of the Third Year, each student shall elect a Major Study in one department or with the consent of the professors in charge, in two allied departments in this college. To the Major Study he shall devote not less than four nor more than ten hours a week during the third year, and not less than five nor more than ten hours the fourth year. With the approval of the proper authority, the Major Study may be entered upon in the second year; an equivalent amount of the required work of that year, not in the line of the Major Study, being postponed to the third year; but the amount so postponed shall not exceed four hours a week. In this case, the elective work of the third year will be reduced by a like amount.

## SECOND YEAR.

French (55)	}	French (56)	}
Modern Literature		Modern Literature	
or	}	or	
German (55)		German (56)	
Literature.	4.	Lyrics.	4.
*History (55)	}	Economics (52)	}
United States		Elementary	
or	}	or	
*Economics (51)		History (56)	
Elementary.	4.	United States.	4.
Latin (53)	4.	Latin (54)	4.
Horace, Pliny.		Tacitus, Juvenal.	
*English Literature (51)	4.	Rhetoric (54)	4.
Introductory.		Analysis of Prose.	
Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

## THIRD YEAR

Philosophy (51)	4.	Philosophy (52)	4.
Psychology.		Logic and Ethics.	
†Major Study	4.	Major Study	4.

## ELECTIVE

Eight hours a week through the year—chosen from the courses in this College, *except* that, not earlier than the third year, studies equivalent to five hours a week for one year may be chosen from any course or courses taught in the University; provided that the studies chosen are such as the student is qualified to pursue.

## FOURTH YEAR

†Major Study	5.	†Major Study	5.
Electives (as in third years)	10.	Electives (as in third year)	10.

At the beginning of the Senior year, each student in this Course will take up as thesis work some special line of inquiry within the field of his major study, subject to the approval of the professor in charge of the department, and must devote to it two hours per week, or its equivalent, independently of his other work. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the fifteenth day of December of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

No one will be admitted to candidacy for a degree later than the first day of October of his last year.

\* The subject not taken the first semester, to be taken the second semester.

\* Major Study. Not later than the beginning of the Third Year, each student shall elect a Major Study in one department or with the consent of the professors in charge, in two allied departments in this college. To the Major Study he shall devote not less than four nor more than ten hours a week during the third year, and not less than five nor more than ten hours the fourth year. With the approval of the proper authority, the Major Study may be entered upon in the second year; an equivalent amount of the required work of that year, not in the line of the Major Study, being postponed to the third year; but the amount so postponed shall not exceed four hours a week. In this case, the elective work of the third year will be reduced by a like amount.

## MODERN LANGUAGE COURSE IN PHILOSOPHY

*Degree: Bachelor of Philosophy*

## FIRST YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
French (51) or (55)	4.	French (52) or (56)	4.
German (51) or (55)	4.	German (52) or (56)	4.
Mathematics (67)	3.	Mathematics (68)	3.
Algebra, Analytics, Calculus.		Trigonometry, Analytics, Calculus.	
Rhetoric (51)	2½.	Rhetoric (52)	2½.
Composition.		Composition.	
Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

One of the following (the choice being for the year):

Botany (51) or (57)	3.	Botany (52) or (58)	3.
Botany (55)	4.	Zoology (64)	4.
Systematic and Physiological.		Comparative.	
Chemistry (51)	3.	Chemistry (52)	3.
Inorganic.		Inorganic.	
Physics (51) or (53)	3.	Physics (52) or (54)	3.
Mechanics, Heat, etc.		Electricity, Magnetism, etc.	
Zoology (51)	3.	Zoology (52).	
Comparative Zoology.		Comparative.	

## SECOND YEAR.

French	4.	French	4.
German	4.	German	4.
*History (55)	} 4.	Economics (52)	} 4.
United States		Elementary	
or		or	
*Economics (51)	} 4.	History (56)	} 4.
Elementary.		United States.	
Rhetoric (53)	4.	English Literature (52).	
Analysis of Prose.		Introductory.	
Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

## THIRD YEAR.

Philosophy (51)	4.	Philosophy (52)	4.
Psychology.		Logic and Ethics.	
†Major Study	4.	†Major Study	4.

## ELECTIVE

Eight hours a week through the year—chosen from the courses in this College, *except* that, not earlier than the third year, studies equivalent to five hours a week for one year may be chosen from any course or courses taught in the University; provided that the studies chosen are such as the student is qualified to pursue.

\* The subject not taken the first semester, to be taken the second semester.

† Major Study. Not later than the beginning of the Third Year, each student shall elect a Major Study in one department or with the consent of the professors in charge, in two allied departments in this college. To the Major Study he shall devote not less than four nor more than ten hours a week during the third year, and not less than five nor more than ten hours the fourth year. With the approval of the proper authority, the Major Study may be entered upon in the second year; an equivalent amount of the required work of that year, not in the line of the Major Study, being postponed to the third year; but the amount so postponed shall not exceed four hours a week. In this case, the elective work of the third year will be reduced by a like amount.



## FOURTH YEAR.

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
†Major Study	5.	†Major Study	5.
Electives (as in third year)	10.	Electives (as in third year)	10.

## THESIS

At the beginning of the Senior year, each student in this Course will take up as thesis work some special line of inquiry within the field of his major study, subject to the approval of the professor in charge of the department, and must devote to it two hours per week, or its equivalent, independently of his other work. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the fifteenth day of December of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

No one will be admitted to candidacy for a degree later than the first day of October of his last year.

## ENGLISH COURSE IN PHILOSOPHY

*Degree: Bachelor of Philosophy*

## FIRST YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
French (51) Elementary or German (51) Elementary.	4.	French (52) Prose and Plays or German (52) Elementary.	4.
History (151) European.	3.	History (152) European.	3.
Mathematics (67) Algebra, Analytics, Calculus.	3.	Mathematics (68) Trigonometry, Analytics, Calculus.	3.
Rhetoric (51) Composition.	2½.	Rhetoric (52) Composition.	2½.
Rhetoric and English Language (69) History of English.	2.	Rhetoric and English Language (70) Development of Prose.	2.
Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

One of the following (the choice being for the year):

Botany (51) or (57)	3.	Botany (52) or (58)	3.
Botany (55) Systematic and Physiological.	4.	Zoology (64) Comparative.	4.
Chemistry (51) Inorganic.	3.	Chemistry (52) Inorganic.	3.
Physics (51) or (53) Mechanics, Heat, etc.	3.	Physics (52) or (54) Electricity, Magnetism, etc.	3.
Zoology (51) Comparative.	3.	Zoology (52) Comparative.	3.

\* Major Study. Not later than the beginning of the Third Year, each student shall elect a Major Study in one department or with the consent of the professors in charge, in two allied departments in this college. To the Major Study he shall devote not less than four nor more than ten hours a week during the third year, and not less than five nor more than ten hours the fourth year. With the approval of the proper authority, the Major Study may be entered upon in the second year; an equivalent amount of the required work of that year, not in the line of the Major Study, being postponed to the third year; but the amount so postponed shall not exceed four hours a week. In this case, the elective work of the third year will be reduced by a like amount.

## SECOND YEAR.

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
French (55)	4.	French (56)	4.
Modern Literature		Modern Literature	
or		or	
German (55)	4.	German (56)	4.
Literature.		Lyrics.	
*History (55)		Economics (52)	
United States	4.	Elementary	4.
or		History (56)	
*Economics (51)		United States.	
Elementary.	3.	Philosophy (54)	3.
Philosophy (53)	4.	English Literature (52)	4.
Rhetoric (53)	2.	Introductory.	2.
Analysis of Prose.		Rhetoric and English Language (72)	
Rhetoric and English Language (71)		Old English.	
Old English.		Cadet Service (men).	4.
Cadet Service (men).		Hygiene and Physical Training (women).	
Hygiene and Physical Training (women).			

## THIRD YEAR.

Philosophy (55)	3.	Philosophy (56)	3.
†Major Study	4.	Major Study	4.

## ELECTIVE

Eight hours a week through the year—chosen from the courses in this College, *except* that, not earlier than the third year, studies equivalent to five hours a week for one year may be chosen from any course or courses taught in the University; provided that the studies chosen are such as the student is qualified to pursue.

## FOURTH YEAR.

Major Study	5.	Major Study	5.
Electives (as in third year)	10.	Electives (as in third year)	10.

## THESIS

At the beginning of the Senior year, each student in this Course will take up as thesis work some special line of inquiry within the field of his major study, subject to the approval of the professor in charge of the department, and must devote to it two hours per week, or its equivalent, independently of his other work. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the fifteenth day of December of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

No one will be admitted to candidacy for a degree later than the first day of October of his last year.

\* The subject not taken the first semester, to be taken the second semester.

## COURSE IN COMMERCE AND ADMINISTRATION

*Degree: Bachelor of Philosophy*

## FIRST YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
French (51)	4.	French (52)	4.
Elementary.		Prose and plays.	
German (51)	4.	German (52)	4.
Elementary.		Elementary.	
History (151)	3.	History (152)	3.
European.		European.	
Mathematics (67)	3.	Mathematics (68)	3.
Algebra, Analytics, Calculus.		Trigonometry, Analytics, Calculus.	
Rhetoric (51)	2½.	Rhetoric (52)	2½.
Composition.		Composition.	
Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

## SECOND YEAR.

French (55)	}	French (56)	}
Modern Literature		Modern Literature	
or	}	or	}
German (55)		German (56)	
Literature.		Lyrics.	
*History (55)	}	Economics (52)	}
United States		Elementary	
or	}	or	}
*Economics (51)		History (56)	
Elementary.		United States.	
History (153)	3.	History (154)	3.
England.		England.	
Rhetoric (5)	4.	English Literature (52)	4.
Analysis of Prose.		Introductory.	
Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

One of the following (the choice being for the year):

Botany (51) or (57)	3.	Botany (52) or (58)	3.
General Chemistry (51)	3.	General Chemistry (52)	3.
Inorganic.		Inorganic.	
Physics (51) or (53)	3.	Physics (52) or (54)	3.
Mechanics, Heat, etc.		Electricity, Magnetism, etc.	
Zoology (51)		Zoology (52)	3.
Comparative.		Comparative.	

## THIRD YEAR.

†Elementary Law	6.	†Contracts	4.
Philosophy (51)	4.	Philosophy (52)	4.
‡Major Study	4.	‡Major Study	4.

## ELECTIVE

From the courses mentioned in the departments below, selection may be made to make up the required number of hours. Not less than sixteen nor more than

\* The subject not taken the first semester, to be taken the second semester.

† In place of Elementary Law six hours; Commercial Law four hours and Corporations (Private and Municipal) two hours may be substituted. Also in place of Contracts, four hours, any two of the following may be substituted; Corporations (Private), Insurance, Agency, Sales, Mortgages.

‡ See note page 79.

eighteen hours a week are permitted and no substitutions or options further than those indicated below.

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
Economics	2 or 3.	Economics	2 or 3.
German	2 or 3.	German	2 or 3.
History	2 or 3.	History	2 or 3.
Political Science	2 or 3.	Political Science	2 or 3.
Rhetoric (57)	3.	Rhetoric (58)	3.
Romance Language	2 or 3.	Romance Language	2 or 3.

#### FOURTH YEAR.

†Major Study	5.	†Major Study	5.
Electives (as in third year)	10.	Electives (as in third year)	10.

#### THESIS

At the beginning of the Senior year, each student in this Course will take up as thesis work some special line of inquiry within the field of his major study, subject to the approval of the professor in charge of the department, and must devote to it two hours per week, or its equivalent, independently of his other work. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the fifteenth day of December of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

No one will be admitted to candidacy for a degree later than the first day of October of his last year.

### COURSE IN GENERAL SCIENCE

*Degree: Bachelor of Science*

#### FIRST YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
Botany (51)	3.	Botany (52)	3.
Elementary		Morphology and Classification	
or	3.	or	3.
Zoology (51)		Zoology (52)	
Comparative.		Comparative.	
French (51)	4.	French (52)	4.
Elementary		Prose and Plays	
or	4.	or	4.
German (51)		German (52)	
Elementary.		Elementary.	
Chemistry (51)	3.	Chemistry (52)	3.
Inorganic.	4.	Inorganic.	4.
*Mathematics (67), (65)		*Mathematics (68), (66)	
Algebra, Analytics, Calculus		Trigonometry, Analytics, Calculus.	
or	5.	or	5.
Mathematics (55), (57)		Mathematics (56), (58)	
Trigonometry and Algebra.		Algebra and Analytics.	
Rhetoric (51)	2½.	Rhetoric (52)	2½.
Composition.	2.	Composition.	2.
Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

† Major Study. Not later than the beginning of the Third Year, each student shall elect a Major Study in one department or with the consent of the professors in charge, in two allied departments in this college. To the Major Study he shall devote not less than four nor more than ten hours a week during the third year, and not less than five nor more than ten hours the fourth year. With the approval of the proper authority, the Major Study may be entered upon in the second year; an equivalent amount of the required work of that year, not in the line of the Major Study, being postponed to the third year; but the amount so postponed shall not exceed four hours a week. In this case, the elective work of the third year will be reduced by a like amount.

\* Students taking both Botany 51 and 52 and Zoology 51 and 52 will take Mathematics 67 and 68 as the required Freshman Mathematics.



## SECOND YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
Economics (51)	4.	Rhetoric (54)	4.
Political Economy.		Analysis of Prose.	
†French or ‡German	4.	French or German	4.
Physics (51)	3.	Physics (52)	3.
Mechanics, Heat, etc.		Electricity, Magnetism, etc.	
Physiology (51)	3.	Physiology (52)	3.
Human Anatomy.		Physiology.	
Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

Together with one of the following subjects, to be continued through the year:

(a) Botany (57), (58), each three hours credit or (59), (60), each five hours' credit for a semester. (b) General Chemistry (53), (54), each five hours' credit. (c) Mathematics (59), (61), (60), (62), each five hours' credit for a semester. (d) Zoology (53), (54), each three hours' credit, or (55), (56), each five hours' credit.

## THIRD YEAR

**Geology (61) and Astronomy (61) General or †French or German**	3. 2. 4.	Geology (62) and **Astronomy (62) General or **Astronomy (54) Mathematical.	3. 2. 5.
Philosophy (53)	3.	Philosophy (54)	3.
*Major Study	4.	Major Study	4.

Elective: Four hours a week through the year—chosen from the courses in this College, *except* that not earlier than the third year:

First: Studies equivalent to five hours a week for one year may be chosen from any courses taught in the University; provided, that the studies chosen are such as the student is qualified to pursue.

Second: Additional studies equivalent to five hours a week for one year may be chosen in the College of Engineering.

## FOURTH YEAR.

Major Study (as in third year)	5.	Major Study (as in third year)	5.
Electives (as in third year)	10.	Electives (as in third year)	10.

## THESIS

As a requisite for graduation each student must present an acceptable thesis embodying the results of a special research. The line of research must lie within

‡ It is desired that the student on completing this course, shall possess a good reading knowledge of both French and German. Therefore, the student entering on both French and German will take both languages in the University, each for one year. He who enters on one Modern Language will continue that language one year in case he cannot read easy prose at sight and take the other language for one year. In case a reading knowledge of one Modern Language is possessed, the student will take the other language two years. The third year of Language in the case of students making the Mathematics a specialty will be that language of which the student has the less knowledge.

\*\* Students who elect Mathematics as their Major Study shall, in the Third Year, take French or German four hours the first semester and Astronomy five hours the second semester.

\* Major Study. Not later than the beginning of the Third Year each student in this course shall elect a Major Study in Mathematics or in a Science in which Laboratory instruction is given. This Major Study shall be in one department, or with the consent of the professors in charge in two allied departments in this college. To the Major Study the student shall devote not less than five not more than ten hours a week during the Fourth Year.

the field of the major study, and is subject to the approval of the professor or professors having the major study in charge; and the student shall enter on this work not later than the beginning of the Senior year, and shall devote to it not less than two hours a week, or its equivalent, for one year, independently of his other work. The subject of thesis, together with a written approval of it by the professor or professors directing the investigation, must be submitted to the President of the University, not later than the beginning of the second semester of the fourth year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day. In case two or more students are pursuing the same major study, a joint research and thesis may be made.

## THE SPECIAL COURSES

### COURSE PREPARATORY TO LAW AND TO JOURNALISM

#### FOR ADMISSION

The requirements for admission to any of the four year courses in the College of Arts, Philosophy and Science; except that the applicant must not be less than eighteen years of age.

#### FIRST YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
English Literature (51)	4.	Economics (52)	4.
Introductory.		Elementary.	
French (51)	} 4.	French (52)	} 4.
Elementary		Prose and Plays	
or		or	
German (51)	} 4.	German (52)	} 4.
Elementary.		Prose and Plays.	
History (151)	3.	History (152)	3.
European.		European.	
Rhetoric (51)	2½.	Rhetoric (52)	2½.
Composition.		Composition.	
Science, Elective	3.	Science, Elective	3.
Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

#### SECOND YEAR

Economics (55)	2.	Economics (56)	2.
Practical Problems.		Industrial Reforms.	
English Literature	2 or 3.	English Literature	2 or 3.
Elective.		Elective.	
European History (153)	3.	European History (154)	3.
England.		England.	
American History (55)	4.	Rhetoric (54)	4.
United States.		Analysis and Prose.	
Philosophy (53)	3.	Philosophy (54)	3.
Psychology.		Logic.	
Rhetoric (55)	1.	Rhetoric (56)	1.
Newspaper work.		Newspaper work.	
Rhetoric (59)	2.	Rhetoric (70)	2.
History of English.		Development of Prose.	
Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

Note — A student desiring to continue French or German may substitute French (55 and 56), or German (55 and 56), for four hours of the studies of the second year. The studies thus deferred must be taken in the third year.

## THIRD YEAR.

Not less than sixteen nor more than seventeen hours a week, including studies deferred from the second year; selections to be made from the following, subject to the conditions named in the "Departments of Instruction." In view of the fact that this is a special course for special purposes, no substitutions or options further than those indicated below, will be permitted.

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
American History (63), (65)	2.	American History (64), (66)	3.
Economics (53), (57), (59)	2.	Economics (54), (58), (60)	2.
English Literature	2 or 3.	English Literature	2 or 3.
European History (155), (157), (161)	2.	European History (156), (158), (162)	2.
Education (57)	2.	Education (54)	2.
Philosophy (55)	3.	Philosophy (56)	3.
Ethics.		Modern.	
Political Science (51), (55)	2.	Political Science (52), (56)	2.
Political Science (53)	3.	Political Science (54)	3.
Rhetoric (57), (69), (75)	3.	Rhetoric (58), (70), (76)	3.
Rhetoric (59)	2.	Rhetoric (60)	2.

## COURSE PREPARATORY TO THE STUDY OF MEDICINE

The three-year course preparatory to the study of Medicine has been discontinued owing to the fact that the completion of this course would not, under the present requirements of the Association of Medical Colleges, enable the student to gain credit for a year's time in the medical course. While it is deemed wiser for the present not to offer a special four-year course leading to a degree, it is desired to point out that a student having a medical career in view when entering here, or determining on such a career within the first year or two of his university course, may make such elections in any of the general courses as to gain a full year's credit, both in work and time allowance in a medical college.

While studies differ in different medical curricula it may be noted that Chemistry, Zoology, Comparative Anatomy, Embryology, Histology, Physiology, Bacteriology and Materia Medica, as taught here will be accepted in the medical schools and election of these in their proper sequence will enable the student to qualify himself very thoroughly for his medical course.

Students having medicine in view will do well to consult with the professors having these studies in charge, with reference to the best sequence of election and those having a particular medical college in view can make their selections with special reference to its requirements. Students already entered in the Course Preparatory to the Study of Medicine may complete the work as arranged at the time of their entrance.



## THE COLLEGE OF ENGINEERING

### FOR ADMISSION TO THE FOUR-YEAR COURSES, AND TO THE COURSE IN ARCHITECTURE

The following are the requirements:

1. *Arithmetic, Descriptive and Physical Geography, English Grammar, and United States History.*
2. *English Composition and English Classics.*—Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of several brief essays, of which one will be upon a subject drawn from the applicant's observation or experience, and the others upon topics requiring a knowledge of the following books, or equivalents: Shakespeare's *Merchant of Venice*, *Julius Caesar*, and *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Conciliation with the Colonies*; Macaulay's *Essays on Milton and Addison*; The Sir Roger de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*.

To meet the English requirement the schools should provide courses in composition-practice and courses in English classics extending side by side through the preparatory years.

In the courses in composition, pupils should be afforded regular and abundant practice in preparing narrative, descriptive, expository and argumentative themes, and should be familiarized with those principles of Rhetoric which are most helpful in composition, such as the principles of sentence-structure, outlining, paragraphing, and choice of words. Scott and Denney's *Composition-Rhetoric* is recommended as a guide. The study of specimens of bad English from a text-book is not recommended; in order to insure accuracy, a considerable amount of the written work of the pupils should be corrected by the teacher and revised and rewritten by the pupils themselves. Some of the composition-work may be based upon the reading prescribed above, but much of it should be based upon the observation and experience of the pupils.

In the course in English classics, pupils should read the prescribed books with sufficient care to become familiar with the plot, incidents, and characters of all of them and should also learn something of their authors and of their places in literary history. A few of these books, or portions of all of them, should be examined closely with reference to form, structure, method, language, and leading characteristics of style. The voluntary outside reading of additional books should be encouraged by the teacher. In connection with all of the reading it is recommended that the memorizing of notable passages of prose and poetry be required.

3. *Algebra*—Taylor's *Academic* or equivalent.
4. *Civil Government*—Fiske or Thorpe preferred.
5. *Geometry, Plane and Solid*—Venable, Wentworth, White, or Wells.
6. *History*—Myers's *General History*.
7. *Latin*—Pronunciation (the Roman method); Grammar (an exact knowledge of the inflections is essential), Cæsar, the first four books of the *De Bello Gallico*.

Or *French*—The whole subject of French Grammar. Applicants will be expected to read at sight easy French and to translate correctly into French simple English sentences. Two years ought to be given to this study, the first year being spent mainly on the Grammar with easy reading; the second devoted to reading good modern French, with grammatical analysis and exercises in writing. The text read should be chiefly narrative and conversational prose; one or more prose comedies of the nineteenth (not the seventeenth) century should be included.

Or *German*—Joynes-Meissner's or Thomas's Grammar is recommended. The essentials in these grammars should have been mastered thoroughly, *i. e.*, declen-



sions of nouns and adjectives, pronouns, comparison of adjectives, prepositions, regular and irregular verbs and essentials of syntax.

The following books or their equivalents must have been read (not less than 600 pages): Joynes's or Whitney's Reader, Hillern's Höher als die Kirche, Riehl's Der Fluch der Schönheit, Freytag's Die Verlorne Handschrift, Gerstäcker Irrfahrten.

Until the year 1902, the *German* or *French* required for admission may be begun at the University, but without University credits. For the year 1902 and thereafter, the full requirements as above stated will be held to.

8. *Physics*—Gage, Carhart and Chute, Avery or Appleton, complete.

Note—An applicant for admission who may be somewhat in arrears in any given subject, will find opportunity to make up this work in the Columbus High Schools, which are fully accredited by the University.

No student will be admitted to the College of Engineering who is in arrears more than fifteen hours, of which not more than five hours may be in Mathematics.

### COURSE IN CIVIL ENGINEERING

This course is arranged for students expecting to become surveyors or civil engineers. The plan of the course is to give (1) a thorough training in mathematics and mechanics, (2) the general principles underlying all branches of civil engineering, (3) the application of the general principles to the several branches of civil engineering. The subjects of land, railroad and topographical surveying are important features, and students can at once begin practical work. In the engineering work special attention is given to iron and steel bridge work, masonry construction and cement testing, road and railroad building and maintenance, water supply and the subject of the collection and disposal of sewage.

#### FIRST YEAR

Note—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1)	2.	Drawing (1)	2.	Drawing (2)	3.
Freehand.		Freehand.		Lettering.	
French (1)	} 4.	French (1)	} 4.	French (1)	} 4.
or		or		or	
German (1)		German (1)		German (1)	
Chemistry (7)	5.	Chemistry (7)	5.	Metallurgy (2)	3.
Inorganic.		Inorganic.		Mineralogy.	
Mathematics (14)	5.	Mathematics (15), (16)	2, 3.	Mathematics (17)	5.
Plane Trigonometry.		Trigonometry, Algebra.		Plane Analytics.	
Rhetoric (5)	2½.	Rhetoric (5)	2½.	Rhetoric (5)	2½.
Paragraph Writing.		Theme Writing.		Prose Analysis.	
Cadet Service.		Cadet Service.			

#### SECOND YEAR

Civil Engineering (1)	6.	Civil Engineering (4)	4.	Civil Engineering (2)	6.
Surveying.		C. E. Drawing.		Surveying.	
Drawing (3)	3.	Drawing (3)	5.	Drawing (3)	3.
Projections.		Descriptive Geometry.		Shades, Shadows & Per.	
Mathematics (18)	5.	Mathematics (19)	5.	Mathematics (20)	5.
Space Analysis.		Calculus.		Calculus.	
Physics (2)	3.	Physics (2)	3.	Physics (2)	3.
Mechanics and Heat.		Electricity & Magnetism.		Light and Sound.	
Cadet Service.		Cadet Service.		Cadet Service.	

#### SUMMER COURSE

Civil Engineering (22). Four weeks—six days per week. Field work in land and railroad surveying.

## THIRD YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Civil Engineering (3)	4.	Civil Engineering (24)	5.	Astronomy (6)	4.
Topog. Surveying.		C. E. Drawing.		Mathematical.	
Civil Engineering (16)	5.	Civil Engineering (6)	4.	Civil Engineering (7)	5.
Roads and Streets.		Stereotomy.		Bridge Stresses.	
Astronomy (4)	3.	Astronomy (5)	3.	Drawing (7)	2.
Mathematical.		Mathematical.		Photography.	
Mech. Engineering (6)	5.	Mech. Engineering (6)	5.	Mech. Engineering (7)	5.
Mechanics.		Mechanics.		Strength Materials.	
Rhetoric (3)	2.	Rhetoric (3)	2.	Rhetoric (3)	2.
Advanced.		Advanced.		Advanced.	

## SUMMER COURSE

Civil Engineering (23). Four weeks — six days per week. Field work in railroad and topographical surveying.

## FOURTH YEAR

Civil Engineering (8)	5.	Civil Engineering (17)	5.	Civil Engineering (18)	5.
Bridge Designing.		Railways.		Water Supply.	
Civil Engineering (15)	5.	Civil Engineering (14)	2.	Civil Engineering (10)	5.
Masonry.		Cement Testing.		Sanitary Engineering.	
Elec. Engineering.		Elec. Engineering.			
Lectures (6)	2.	Lectures (6)	2.		
		Laboratory (7)	2.		
		Mech. Engineering (17)	3.	Mech. Engineering (35)	5.
		Laboratory.		Laboratory.	
Geology (5)	5.	Geology (6)	3.		
General.		Economic.			

## \* VOLUNTARY

\* French (3), two hours; or German (2), two hours; or Rhetoric (4), two hours; each for the year.

## THESIS

As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of this study must lie within the field of Civil Engineering. The subject must be announced to the President of the University (dependent upon the approval of the head of the Department) not later than the beginning of the second term of the fourth year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

## COURSE IN MINE ENGINEERING

This Course is arranged for students intending to become mining engineers and surveyors, metallurgical or technical chemists. The plan of work, therefore, while keeping mathematics, drawing and engineering prominent, also provides extended work in applied chemistry, chemical analysis, assaying, mineralogy, geology, and surveying with especial application to mines and underground work, while the treatment of ores, both mechanical in ore dressing and chemical in metallurgy, forms an important feature.

Note — The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

## FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1)	2.	Drawing (1)	2.	Drawing (2)	3.
Freehand.		Freehand.		Lettering.	
French (1)	} 4.	French (1)	} 4.	French (1)	} 4.
or		or		or	
German (1)		German (1)		German (1)	
Chemistry (7)	5.	Chemistry (7)	5.	Metallurgy (2)	3.
Inorganic.		Inorganic.		Mineralogy.	
Mathematics (14)	5.	Mathematics (15), (16)	2, 3.	Mathematics (17)	5.
Plane Trigonometry.		Trigonometry, Algebra.		Plane Analytics.	
Rhetoric (5)	2½.	Rhetoric (5)	2½.	Rhetoric (5)	2½.
Paragraph Writing.		Theme Writing.		Prose Analysis.	
Cadet Service.		Cadet Service.		Cadet Service.	

## SECOND YEAR

Drawing (3)	3.	Drawing (3)	3.	Drawing (3)	3.
Projections.		Descriptive Geometry.		Shades & Shadows.	
Mathematics (18)	5.	Mathematics (19)	5.	Mathematics (20)	5.
Space Analytics.		Calculus.		Calculus.	
Metallurgy (5)	5.	Metallurgy (5)	5.	Metallurgy (5)	5.
Laboratory.		Laboratory.		Laboratory.	
Physics (2)	3.	Physics (2)	3.	Physics (2)	3.
Mechanics and Heat.		Electricity & Magnetism.		Light and Sound.	
Shopwork (7)	2.	Shopwork (11)	2.	Shopwork (4)	2.
Woodwork.		Forging.		Chipping and Filing.	
Cadet Service.		Cadet Service.			

## VOLUNTARY

French (3)	2.	or German (2)	2.	or Rhetoric (4)	2.
		Each for the year.			

## THIRD YEAR

Mech. Engineering (6)	5.	Mech. Engineering (6)	5.	Mech. Engineering (7)	5.
Mechanics.		Mechanics.		Strength Materials.	
Metallurgy (4)	5.	Metallurgy (4)	5.	Civil Engineering (19)	5.
Fuels and Iron.		Steel, Copper, Gold, etc.		Truss Stresses.	
Mine Engineering (4)	5.	Metallurgy (6)	5.	Metallurgy (3)	5.
Mine Surveying.		Assaying.		Deter. Mineralogy.	
Rhetoric (3)	2.	Rhetoric (3)	2.	Rhetoric (3)	2.
Advanced.		Advanced.		Advanced.	

## FOURTH YEAR

Elec. Engineering.		Elec. Engineering.		Mech. Engineering (3)	5.
Lectures (6)	2.	Lectures (6)	2.	Plans and Specifications.	
Laboratory (7)	2.	Laboratory (7)	2.		
Geology (5)	5.	Geology (6)	3.	Mine Engineering (6)	5.
General.		Economic.		Plans and Specifications.	
Mine Engineering (5)	5.	Metallurgy (7)	3.	Mine Engineering (5)	5.
Mine Engineering.		Metal. Construction.		Mine Engineering.	
Metallurgy (8)	2.	Mine Engineering (5)	5.	Drawing (7)	2.
Ore Dressing.		Mine Engineering.		Photography.	
		Geology (7)	2.		
		Petrography.			

## THESIS

As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of such study must lie within the field of Metallurgy or of Mine Engineering. The subject must be

announced to the President of the University (dependent upon the written approval of the head of the department) not later than the beginning of the second term of the fourth year; and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

## COURSE IN MECHANICAL ENGINEERING

This Course has for its object the qualifying of men for the mechanical engineering profession. It aims to embrace preparation for such lines of pursuit as the successful management of machinery in manufacturing establishments; the superintendence of construction; the designing and laying out of machinery plants for mills and factories; the construction of machines for particular purposes, and the designing and drawing of the same, the making of calculations respecting strength, shocks, proportion, endurance, and suitability of material for specific purposes.

Note—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

### FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1)	2.	Drawing (1)	2.	Drawing (2)	3.
Freehand.		Freehand.		Lettering.	
French (1)	} 4.	French (1)	} 4.	French (1)	} 4.
or		or		or	
German (1)		German (1)		German (1)	
Chemistry (7)	5.	Chemistry (7)	5.	Shopwork (7)	4.
Inorganic.		Inorganic.		Carpentry and Pattern Making.	
Mathematics (14)	5.	Mathematics (15), (16)	2, 3.	Mechanics (17)	5.
Plane Trigonometry.		Trigonometry, Algebra.		Plane Analytics.	
Rhetoric (5)	2½.	Rhetoric (5)	2½.	Rhetoric (5)	2½.
Paragraph Writing.		Theme Writing.		Prose Analysis.	
Cadet Service.		Cadet Service.		Cadet Service.	

### SECOND YEAR

Drawing (3)	3.	Drawing (3)	3.	Drawing (3)	3.
Projections.		Descr. Geometry.		Shades & Shadows.	
Mathematics (18)	5.	Mathematics (19)	5.	Mathematics (20)	5.
Space Analytics.		Calculus.		Calculus.	
Physics (2)	3.	Physics (2)	3.	Physics (2)	3.
Mechanics and Heat.		Electricity & Magnetism.		Sound and Light.	
Shopwork (11)	3.	Physics (7)	2.	Physics (7)	3.
Forging.		Laboratory.		Laboratory.	
Rhetoric (3)	2.	Rhetoric (3)	2.	Rhetoric (3)	2.
Advanced.		Advanced.		Advanced.	
Shopwork (3)	2.	Shopwork (4)	3.	Shopwork (13)	3.
Foundry.		Chipping and Filing.		Machine Work.	
Cadet Service.		Cadet Service.		Cadet Service.	

### VOLUNTARY

French (3)	2.	or German (2)	2.	or Rhetoric (4)	2.
		Each for the year.			



## THIRD YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (5) Technical.	3.	Mech. Engineering (6) Mechanics.	5.	Drawing (7) Photography.	2.
Mathematics (11) Differential Equations.	1.	Mech. Engineering (22) Timber and Masonry.	3.	Civil Engineering (19) Truss Stresses.	5.
Mech. Engineering (6) Mechanics.	5.	Mech. Engineering (3) Mechanism.	5.	Mech. Engineering (7) Strength Materials.	5.
Metallurgy (4) Fuels and Iron.	5.	Metallurgy (4) Steel.	2.		
Shopwork (14) Machine Work.	3.	Shopwork (15) Advanced Machine Work.	4.	Mech. Engineering (3) Mechanism.	2.
Mech. Engineering (12) Laboratory.	2.			Mech. Engineering (32) Power Plants.	5.

## FOURTH YEAR

Elec. Engineering. Lectures (6) Laboratory (7)	2. 2.	Elec. Engineering. Lectures (6) Laboratory (7)	2. 2.	Industrial Arts (5) Shop Appliances.	3.
Mech. Engineering (27) Laboratory.	5.			Mech. Engineering (19) Machine Design.	5.
Mech. Engineering (33) Engines & Boilers.	5.	Mech. Engineering (34) Thermodynamics.	5.	Mech. Engineering (15) Laboratory.	3.
		Mech. Engineering (14) Laboratory.	4.	Mech. Engineering (31) Hydraulic Mach.	3.
Mech. Engineering (18) Mach. Design.	5.	Mech. Engineering (18) Mach. Design.	5.	Mech. Engineering (21) Thesis Work.	5.

## THESIS

As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of such study must lie within the field of Mechanical Engineering. The subject must be announced to the President of the University (dependent upon the written approval of the head of the department) not later than the beginning of the second term of the fourth year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

## COURSE IN ELECTRICAL ENGINEERING

The object of this Course is to prepare students for the various pursuits in which the applications of electricity are prominent. Physics, especially theoretical and applied electricity, and mechanical engineering are naturally the leading subjects of the Course. General theory is treated in ample breadth, and is tested by experiments in well equipped laboratories. The laboratories are so conducted as to afford the student a degree of facility in the use of instruments and machinery only acquired by continued practice.

Note — The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

## FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1) Freehand.	2.	Drawing (1) Freehand.	2.	Drawing (2) Lettering.	3.
French (1) or German (1)	} 4.	French (1) or German (1)	} 4.	French (1) or German (1)	} 4.
Chemistry (7)		Chemistry (7) Inorganic.		Shopwork (7) Carpentry & Pattern Making.	
Inorganic. Mathematics (14) Plane Trigonometry.	5.	Mathematics (15), (16) Trigonometry, Algebra.	2, 3.	Mathematics (17) Plane Analytics.	5.
Rhetoric (5) Paragraph Writing.	2½.	Rhetoric (5) Theme Writing.	2½.	Rhetoric (5) Prose Analysis.	2½.
Cadet Service.		Cadet Service.		Cadet Service.	

## SECOND YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (3)	3.	Drawing (3)	3.	Drawing (3)	3.
Projections.		Descriptive Geometry.		Shade & Shadows.	
Mathematics (18)	5.	Mathematics (19)	5.	Mathematics (20)	5.
Space Analytics.		Calculus.		Calculus.	
Physics (2)	3.	Physics (2)	3.	Physics (2)	3.
Mechanics, Heat.		Electricity, Magnetism.		Light, Sound.	
Physics (3)	2.	Physics (3)	2.	Physics (3)	2.
Problems.		Problems.		Problems.	
Shopwork (11)	2.			Physics (5)	4.
Forging.				Laboratory.	
Rhetoric (3)	2.	Rhetoric (3)	2.	Rhetoric (3)	2.
Advanced.		Advanced.		Advanced.	
Shopwork (4)	2.	Shopwork (13)	3.		
Chipping and Filing.		Machine Work.			
Cadet Service.		Cadet Service.		Cadet Service.	

## VOLUNTARY

French (3)	2.	or German (2)	2.	or Rhetoric (4)	2.
		Each for the year.			

## THIRD YEAR

Drawing (5)	3.	Mech. Engineering (3)	5.	Industrial Arts (7)	3.
Technical.		Mechanism.		Machine Design.	
Mech. Engineering (6)	5.	Mech. Engineering (6)	5.	Mech. Engineering (28)	2.
Mechanics.		Mechanics.		Laboratory.	
Physics (6)	3.	Physics (6)	5.	Mech. Engineering (7)	5.
Laboratory.		Laboratory.		Strength Materials.	
Physics (4)	3.	Elec. Engineering (8)	4.	Mech. Engineering (32)	5.
Electricity & Magnetism.		D. C. Machine.		Power Plants.	
Shopwork (14)	3.			Elec. Engineering (9)	4.
Machine Work.				Laboratory.	

## FOURTH YEAR

Elec. Engineering (10)	3.	Elec. Engineering (10)	3.	Elec. Engineering (13)	5.
Alt. Current Mach.		Alt. Current Mach.		Applications.	
Elec. Engineering (11)	3.	Elec. Engineering (14)	4.	Elec. Engineering (14)	4.
Laboratory.		Designing.		Designing.	
Mech. Engineering (4)	5.	Elec. Engineering (11)	3.	Elec. Engineering (4)	5.
Laboratory.		Laboratory.		Laboratory and Thesis.	
Mech. Engineering (8)	5.	Elec. Engineering (9)	5.		
Engines & Boilers.		Transmission.			
*Elective	3-5.	*Elective	3-5.	*Elective	3-5.

## THESIS

As a requisite for graduation, each candidate must present an acceptable thesis, embodying the result of a special study. The subject of such study must lie within the field of Electrical Engineering. The subject must be announced to the President of the University (dependent upon the written approval of the head of the Department) not later than the beginning of the second term of the fourth year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

## COURSE IN CERAMICS

This course is designed to create a class of engineers who shall be fitted to render to the Clay, Glass and Cement Industries the same kind of services which

\* Subject to the approval of the Professor of Electrical Engineering.

have long been rendered to Mining and Metallurgical Industries by graduates of Schools of Mines.

The problems of the Ceramic Industries are not unlike those of the Mining Industries, either in kind or in adaptation to methods of technical control; but the information and scientific equipment necessary to solve these problems successfully are peculiar to those industries alone, and in the past have received little or no attention from technical schools in this country.

This course is offered with the hope of filling this long standing gap in the scheme of engineering education in this country. It is essentially an Engineering Course, following closely the lines of the other engineering courses, up to the end of the second year. In the last two years, the training specializes along the lines of Ceramic and of the application of Chemistry to this subject.

Note — The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

### FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1)	2.	Drawing (1)	2.	Drawing (2)	3.
Freehand.		Freehand.		Lettering.	
Chemistry (7)	5.	Chemistry (7)	5.	Shopwork (7)	4.
Inorganic.		Inorganic.		Carpentering & Pattern Making.	
German (1) or (4)	4.	German (1) or (4)	4.	German (1)	} 4.
				or	
				French (1)	} 5.
Mathematics (14)	5.	Mathematics (15), (16)	2, 3.	Mathematics (17)	
Plane Trigonometry.		Trigonometry, Algebra.		Plane Analytics.	
Rhetoric (5)	2½.	Rhetoric (5)	2½.	Rhetoric (5)	2½.
Paragraph Writing.		Theme Writing.		Prose Analysis.	
Cadet Service.		Cadet Service.		Cadet Service.	

### SECOND YEAR

Ceramics (1)	5.	Ceramics (2)	5.	Ceramics (3)	5.
Laboratory.		Laboratory.		Laboratory.	
Drawing (3)	3.	Drawing (3)	3.	Drawing (3)	3.
Projections.		Descriptive Geometry.		Shades, Shadows.	
Mathematics (18)	5.	Mathematics (19)	5.	Mathematics (20)	5.
Space Analytics.		Calculus.		Calculus.	
Physics (2)	3.	Physics (2)	3.	Physics (2)	3.
Mechanics and Heat.		Electricity & Magnetism.		Light and Sound.	
Physics (3)	2.	Physics (3)	2.	Physics (3)	2.
Problems.		Problems.		Problems.	
Cadet Service.		Cadet Service.		Cadet Service.	

### VOLUNTARY

French (3)	2.	or German (2)	2.	or Rhetoric (4)	2.
		Each through the year.			

### THIRD YEAR

Ceramics (4)	4.	Ceramics (5)	5.	Ceramics (6)	5.
General Principles.		Bricks.		Pottery.	
Mine Engineering (4)	5.	Ceramics (7)	5.	Metallurgy (2)	3.
Mine Surveying.		Advanced Chemical Laboratory Work.		Minerology.	
Mech. Engineering (6)	5.	Mech. Engineering (6)	5.	Mech. Engineering (7)	5.
Mechanics.		Mechanics.		Strength Materials.	
Rhetoric (3)	2.	Rhetoric (3)	2.	Rhetoric (3)	2.
Advanced.		Advanced.		Advanced.	
				Shopwork (11)	3.
				Forging.	



## FOURTH YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Ceramics (9)	5.	Ceramics (10)	5.	Ceramics (11)	5.
Manufacture of Bodies.		Glasses and Glazes.		Enamels and Colors.	
Shopwork (4)	3.	Ceramics (12)	5.	Ceramics (15)	5.
Chipping and Filing.		Cement.		Thesis Work.	
Geology (5)	5.	Ceramics (17)	4.	Ceramics (14)	5.
General.		Ceramic Construction.		Reports.	
Metallurgy (4)	5.	Geology (6)	3.	Drawing (7)	2.
Fuels and Iron.		Economic.		Photography.	

## THESIS

As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of this study must lie within the field of Ceramic Engineering. The subject must be announced to the President of the University (dependent upon the approval of the head of the Department), not later than the beginning of the second term of the fourth year; and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

## COURSE IN INDUSTRIAL ARTS

This course is designed to furnish a strong basis for those wishing to become teachers of Manual Training, and for those intending to enter the various branches of manufacture and industry, not as engineers, but as practical managers, superintendents or business men. The required part of the course combines with a general science training a large amount of drawing and shop work, in which the underlying principles and methods employed in various branches of industry are dwelt on. Large liberty of election of studies is allowed the student. His election, properly exercised, together with the required work will equip the student for a wide range of occupations along the lines stated. The aim of the course is educational as well as professional, the training of the mind and hand together.

Note—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

## FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1)	2.	Drawing (1)	2.	Drawing (2)	3.
Freehand.		Freehand.		Lettering.	
Chemistry (7)	5.	Chemistry (7)	5.	Chemistry (2)	5.
Inorganic.		Inorganic.		Qualitative Analysis.	
Mathematics (14)	5.	Mathematics (15), (16)	2, 3.	Mathematics (17)	5.
Plane Trigonometry.		Trigonometry, Algebra.		Plane Analytics.	
Rhetoric (5)	2½.	Rhetoric (5)	2½.	Rhetoric (5)	2½.
Paragraph Writing.		Theme Writing.		Prose Analysis.	
German (1)	4.	German (1)	4.	German (1)	4.
Cadet Service.		Cadet Service.		Cadet Service.	



## SECOND YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (3)	3.	Drawing (3)	3.	Drawing (3)	3.
Projections.		Descriptive Geom.		Shades, Shadows.	
Physics (2)	3.	Physics (2)	3.	Physics (2)	3.
Mechanics, Heat.		Electricity, Magnetism.		Light, Sound.	
Physics (3)	2.	Physics (3)	2.	Physics (3)	2.
Problems.		Problems.		Problems.	
Shopwork (7)	3.	Shopwork (9)	3.	Shopwork (8)	3.
Woodwork.		Adv. Pattern Making.		Cabinet Work.	
Shopwork (3)	3.	Shopwork (11)	3.	Shopwork (12)	3.
Foundry.		Forging.		Adv. Forging.	
Rhetoric (3)	2.	Rhetoric (3)	2.	Rhetoric (3)	2.
Advanced.		Advanced.		Advanced.	
Economics (51)	4.	Economics (51 and 56).		Economics (56)	2.
Elementary.				Ind. and Soc. Ref.	
Military Drill.		Military Drill.		Military Drill.	

## THIRD YEAR

Drawing (5)	3.	Industrial Arts (2)	3.	Industrial Arts (2)	3.
Technical.		Designing.		Designing.	
Industrial Arts (1)	3.	Industrial Arts (1)	3.	Industrial Arts (1)	3.
Tools and Machines.		Tools and Machines.		Tools and Machines.	
Shopwork (4)	3.	Shopwork (13)	3.	Shopwork (14)	3.
Chipping and Filing.		Machine Work.		Machine Work.	
Metallurgy (4)	5.	Metallurgy (4)	2.	Civil Engineering (21)	3.
Fuels and Iron.		Steel.		Surveying.	
Economics (65)	2.	Economics (65).		Economics (58 or 66)	2.
Commercial Geog.		History (56).		History (56)	4.
Economics (55 or 57)	2.	Economics (55 or 57).		U. S. Political.	
		Economics (58 or 66).			
		Mech. Engineering (22)	3.		
		Timber and Masonry.			

## FOURTH YEAR

Shopwork (15)	3.	Shopwork (16)	3.	Shopwork (17)	3.
Adv. Mach. Work.		Adv. Mach. Work.		Adv. Mach. Work.	
Political Science (53)	3.	Political Science (53).			
Polit. Inst. of U. S.		Polit. Inst. of U. S.			
Elec. Engineering (6)	2.	Elec. Engineering (6)	2.	Mech. Engineering (32)	5.
Lectures.		Lectures.		Power Plants.	
Elec. Engineering (7)	2.	Elec. Engineering (7)	2.		
Laboratory.		Laboratory.			
Industrial Arts (3)	3.	Industrial Arts (3)	3.	Industrial Arts (3)	3.
Shop Equipment.		Shop Appliances.		Shop Management.	
Industrial Arts (4)	3.	Industrial Arts (4)	3.	Industrial Arts (4)	3.
Adv. Designing.		Adv. Designing.		Adv. Designing.	
Mech. Engineering (28)	2.	Mech. Engineering (29)	2.	Mech. Engineering (30)	2.
Laboratory.		Laboratory.		Laboratory.	
		Thesis.		Thesis	3.

## THESIS

As a requisite for graduation, each candidate must present an acceptable thesis embodying the results of a special study. The subject of such study must lie within the field of Industrial Arts. The subject must be announced to the President of the University (dependent upon the written approval of the head of the Department), not later than the beginning of the second term of the fourth year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

## COURSE IN CHEMISTRY

The object of this Course is to prepare students for work in Industrial Chemistry or Metallurgical Chemistry, according to electives chosen. With proper electives it will also be found a desirable course for students expecting to become general analytical chemists.

The electives are subject to the approval of the head of the department of Chemistry, or of Metallurgy and Mineralogy for students in Metallurgical Chemistry.

Note—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

## FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1)	2.	Drawing (1)	2.	Drawing (2)	3.
Freehand.		Freehand.		Lettering.	
Chemistry (7)	5.	Chemistry (7)	5.	Chemistry (12)	5.
Inorganic.		Inorganic.		Qualitative Analysis.	
German (1) or (4)	4.	German (1) or (4)	4.	German (1) or (4)	4.
Mathematics (14)	5.	Mathematics (15), (16)	5.	Mathematics (17)	5.
Plane Trigonometry.		Trigonometry, Algebra.		Plane Analytics.	
Rhetoric (5)	2½.	Rhetoric (5)	2½.	Rhetoric (5)	2½.
Paragraph Writing.		Theme Writing.		Prose Analysis.	
Cadet Service.		Cadet Service.		Cadet Service.	

## SECOND YEAR

Chemistry (20)	4.	Chemistry (20)	4.	Chemistry (20)	4.
Quantitative.		Quantitative.		Quantitative.	
Chemistry (21)	2.	Chemistry (21)	2.	Chemistry (21)	2.
Physical Chemistry.		Physical Chemistry.		Physical Chemistry.	
German (5)	4.	German (5)	4.	German (5)	4.
Scientific Reading.		Scientific Reading.		Scientific Reading.	
Physics (2)	3.	Physics (2)	3.	Physics (2)	3.
Mechanics and Heat.		Electricity & Magnetism.		Sound and Light.	
Shopwork (7)	3.	Shopwork (11)	3.	Metallurgy (2)	3.
Woodwork.		Forging.		Mineralogy.	
Cadet Service.		Cadet Service.		Cadet Service.	

Electives three to five hours throughout the year.

The following are suggested: Mathematics (18, 19, 20), 5 hours; Drawing (3), 3 hours; Physiology (3) 3 hours; History (5), 4 hours; Economics (1), 4 hours.

## THIRD YEAR

Chemistry (8)	5.	Chemistry (9)	5.	Chemistry (9)	5.
Organic.		Organic.		Organic.	
Metallurgy (5)	5.	Metallurgy (6)	5.	Metallurgy (5)	5.
Laboratory.		Assaying.		Laboratory.	
Rhetoric (3)	2.	Rhetoric (3)	2.	Rhetoric (3)	2.
Advanced.		Advanced.		Advanced.	

Electives five to eight hours throughout the year.

The following are suggested: Physical Laboratory, 3 to 5 hours; Geology, 5 hours—or Geology and Determinative Mineralogy, 5 hours; Shopwork, 3 hours.

## FOURTH YEAR

Chemistry (17)	4.	Metallurgy (4)	5.	Chemistry (15)	4.
Inorganic Preparations.		General.		Sanitary.	
Metallurgy (4)	5.	Chemistry (16)	3.	Ceramics (16)	3.
Fuels and Iron.		Applied.		Applied.	
		Physiology (8)	2.		
		Bacteriology.			

Electives to make the total work equal sixteen or eighteen hours, including Thesis work.

Students in Metallurgical Chemistry will take Ore Dressing the first term. and Metallurgy (4) 5, through the second term. For such students Chemistry (14, 15, 16) and Physiology (8) will not be compulsory.

#### THESIS

As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of the study must lie within the field of Chemistry or Metallurgy. The subject must be announced to the President of the University (dependent upon the approval of the head of the department), not later than the beginning of the second term of the fourth year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

#### COURSE IN ARCHITECTURE

This Course was established in 1896, to meet a growing demand for special training along this line. The extremely rapid developments, in late years, of novel methods of construction, the constantly extending list of materials used, and the creation of types of building entirely without precedent in the history of architecture, render it not only desirable, but imperative, that a large class of thoroughly trained and equipped men shall be brought forward, if this progress is to be maintained.

The employment in architecture of so many young men trained in other branches of engineering seems to prove the urgent need of those whose training is directed expressly to this end.

The Course offered gives a good training in mathematics, physics and mechanics, which are fundamental, together with a thorough drill in drawing, designing, shopwork, and the more technical branches of architecture proper.

Note—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

#### FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1)	3.	Drawing (1)	3.	Mathematics (17)	5.
Freehand.		Freehand.		Plane Analytics.	
Chemistry (7)	5.	Chemistry (7)	5.	Metallurgy (2)	3.
Inorganic.		Inorganic.		Mineralogy.	
Mathematics (14)	5.	Mathematics (15), (16)	2, 3.	Modern Language	4.
Plane Trigonometry.		Trigonometry, Algebra.		French or German.	
Rhetoric (5)	2½.	Rhetoric (5)	2½.	Rhetoric (5)	2½.
Paragraph Writing.		Theme Writing.		Prose Analysis.	
Modern Language	4.	Modern Language	4.	Drawing (2)	3.
French or German.		French or German.		Lettering.	
Cadet Service.		Cadet Service.		Cadet Service.	

#### SECOND YEAR

Drawing (3)	3.	Drawing (3)	5.	Drawing (3)	5.
Projections.		Descriptive Geom.		Shades, Shadows.	
Mathematics (18)	5.	Mathematics (19)	5.	Mathematics (20)	5.
Space Analytics.		Calculus.		Calculus.	
Physics (2)	3.	Physics (2)	3.	Physics (3)	3.
Mechanics, Heat.		Electricity, Magnetism.		Light, Sound.	
Architecture (9)	3.	Architecture (10)	3.	Architecture (11)	3.
History of Architecture.		History of Architecture.		History of Architecture.	
Architecture (12)	2.	Architecture (13)	2.	Architecture (14)	2.
Detail Drawing.		Detail Drawing.		Detail Drawing.	
Drawing (14)	2.				
Pen Drawing.					
Cadet Service.		Cadet Service.		Cadet Service.	



## THIRD YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Mech. Engineering (6)	5.	Mech. Engineering (6)	5.	Mech. Engineering (7)	5.
Mechanics.		Mechanics.		Strength Materials.	
Architecture (15)	4.	Architecture (16)	2.	Architecture (17)	4.
Designing.		Designing.		Designing.	
Drawing (7)	2.	Drawing (12)	2.	Drawing (12)	2.
Photography.		Clay Modeling.		Clay Modeling.	
Elec. Engineering (6)	2.	Elec. Engineering (6 & 7)	4.		
Lectures.		Lectures and Lab.			
Architecture (5)	3.	Civil Engineering (6)	4.	Civil Engineering (19)	5.
Decorations, etc.		Stereotomy.		Trusses.	
Rhetoric (3)	2.	Rhetoric (3)	2.	Rhetoric (3)	2.

## FOURTH YEAR

Architecture (18)	4.	Architecture (4)	2.	Architecture (6)	4.
Designing.		Specifications.		Estimates and Supt.	
Civil Engineering (15)	5.	Architecture (7)	5.	Architecture (19)	4.
Masonry.		Heating, Vent., etc.		Designing.	
Mech. Engineering (23)	4.	Architecture (8)	5.	Architecture (20)	5.
Materials of Const.		Designing.		Thesis.	
Geology (5)	5.	Geology (6)	3.	Civil Engineering (21)	3.
General.		Economic.		Surveying.	
		Drawing (18)	3.	Drawing (19)	2.
		Color Work.		Color Work.	

## THESIS

At the beginning of the fourth year, each student in this Course will take up as thesis work some special line of inquiry within the field of his major study, subject to the approval of the professor in charge of the department, and must devote to it two hours per week, or its equivalent, independently of his other work. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the beginning of the second semester of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

### REQUIREMENTS FOR ADMISSION TO THE SHORT COURSES IN MINING, IN CLAY-WORKING AND CERAMICS, AND IN INDUSTRIAL ARTS

Applicants must not be less than sixteen years of age; and unless they are over twenty-one years of age must pass an examination in Arithmetic, Geography, Grammar and Orthography, or bring High School or other certificates for these branches.

Applicants who are over twenty-one years of age are admitted without examination.

### SHORT COURSE IN MINING

The Short Course in Mining is especially designed for young men who have had a practical experience in mines, and wish to study Mine Surveying, Drafting, the problems of Ventilation, Drainage, Haulage, Mine Operating, etc., and also something of the sciences bearing upon their work, but have neither the time nor the preparation for a full college course. The first year is devoted to a thorough study of the elementary mathematics and sciences necessary to prepare the student for the practical work of the second year. The experience of the past eight years



has shown beyond any doubt that any enterprising young miner can master the subject sufficiently well in the time assigned to materially increase his earning capacity and chances for promotion in his occupation.

Personal instruction is given, and it is made thoroughly practical and of such a character as to best adapt it to the needs of the individual student.

Note—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

## FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Mathematics (2)	5.	Mathematics (2)	5.	Mathematics (2)	5.
Algebra.		Algebra.		Algebra.	
Mathematics (3)	5.	Mathematics (13)	5.	Mathematics (14)	5.
Plane Geometry.		Geometry.		Trigonometry.	
Physics (1)	5.	Physics (1)	5.	Geology (1)	5.
Elementary.		Elementary.		Physical Geography.	
Cadet Service.		Cadet Service.		Cadet Service.	

## SECOND YEAR

Drawing (1)	2.	Drawing (4)	3.	Drawing (2)	2.
Freehand.		Draughting.		Lettering.	
Drawing (3)	2.	Geology (4)	5.	Metallurgy (9)	5.
Projections.		Elementary.		Mineral Chemistry.	
Chemistry (7)	5.	Chemistry (13)	3.	Mine Engineering (3)	5.
Inorganic.		Laboratory.		Mine Operating.	
Mine Engineering (1)	5.	Mine Engineering (2)	5.	Shopwork (11)	3.
Mine Surveying.		Ventilation and Haulage.		Forging.	
Cadet Service.		Cadet Service.		Cadet Service.	

## SHORT COURSE IN CLAY-WORKING AND CERAMICS

The two-year or Industrial Course is designed to assist young men who have already been actively engaged in the Ceramic industries, and who, on account of mature years, or lack of means, or lack of previous educational advantages, are unable to avail themselves of the full and complete course, and yet who wish to increase their earning power or chances of promotion by fitting themselves for other than routine labor. The requirements for admission to this course are very low, and the work required throughout is much less severe than that of the four-year course; in fact, anyone who is willing to really apply himself, can retain his membership in this class, but there is no place for any but those who are thoroughly in earnest, and poor work will not be accepted from those who are able to do good work.

In short, in this Industrial Course, the department recognizes its closest medium of communication with the wants of the clay industries, and it is intended to so maintain this course as always to render the greatest good to the greatest number.

Note—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

## FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Chemistry (7)	5.	Chemistry (7)	5.	Chemistry (12)	5.
Inorganic.		Inorganic.		Analytical.	
Physics (1)	5.	Physics (1)	5.	Geology (1)	5.
Elementary.		Elementary.		Physical Geography.	
Mathematics (1)	5.	Mathematics (3a)	5.	Shopwork (11)	3.
Algebra.		Geometry.		Forging.	
				Shopwork (4)	2.
				Chipping and Filing.	
Cadet Service.		Cadet Service.		Cadet Service.	

## SECOND YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Ceramics (1)	5.	Ceramics (2)	5.	Ceramics (3)	5.
Chemical Analysis.		Analysis of Clays.		Analysis of Glazes.	
Ceramics (4)	5.	Ceramics (5)	5.	Ceramics (6)	6.
General Principles.		Bricks.		Pottery.	
Geology (2)	5.	Geology (6)	3.	Drawing (11)	5.
General.		Economic.		Mechanical.	
		Drawing (1)	2.		
		Freehand.			
Cadet Service.		Cadet Service.		Cadet Service.	

## SHORT COURSE IN INDUSTRIAL ARTS

This Course is primarily designed to extend the benefits of the same kind of training as that given in the four-year course in this subject to that class of young men who may be unable for any reason to undertake a course of four years' duration, but who aspire to become actively engaged in factory work. It has been the aim to give, in as condensed a form as possible, those studies which will most rapidly and easily be turned to practical account in manufacturing operations; such as drawing, shop work, use of machine, tools, etc., together with a grounding in the physics and mathematics which underlie these operations.

The Course will be found most valuable to young men already engaged in factory work, who find themselves limited from rising in their work on account of lack of technical education.

Note—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

## FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1)	1.	Drawing (1)	1.	Drawing (1)	1.
Freehand.		Freehand.		Freehand.	
Drawing (8)	2.	Drawing (8)	2.	Drawing (2)	2.
Geometric.		Projections.		Lettering.	
Mathematics (2)	5.	Mathematics (2)	5.	Mathematics (2)	5.
Algebra.		Algebra.		Algebra.	
Mathematics (3)	5.	Mathematics (13)	5.	Mathematics (14)	5.
Plane Geometry.		Space Geometry.		Trigonometry.	
Shopwork (7)	3.	Shopwork (9)	3.	Shopwork (11)	3.
Carpentry & Pattern		Advanced Pattern		Forging.	
Making.		Making.			
Cadet Service.		Cadet Service.		Cadet Service.	

## SECOND YEAR

Drawing (3)	3.	Drawing (3)	3.	Drawing (3)	3.
Projections.		Descriptive Geometry.		Shades, Shadows.	
Industrial Arts (1)	3.	Industrial Arts (1)	3.	Industrial Arts (1)	3.
Tools and Machines.		Tools and Machines.		Tools and Machines.	
Physics (1)	5.	Physics (1)	5.	Geology (1)	5.
Elementary.		Elementary.		Physical Geography.	
Shopwork (3), (4)	5.	Shopwork (13)	5.	Shopwork (15)	5.
Foundry and Chipping		Machine Work.		Advanced Machine	
and Filing.				Work.	
Cadet Service.		Cadet Service.		Cadet Service.	

## THE COLLEGE OF LAW

### FOR ADMISSION

(Until September, 1901.)

The following are the requirements:

1. *To the First Year*—Applicants for admission to the First Year must present satisfactory evidence (by teacher's certificate—High School, Academy or College diploma—or by examination) of having a good common school education, including *United States History*, *Civil Government* and a thorough training in *English Composition*.

2. *The Second Year*—In addition to the requirements for admission to the First Year, applicants for admission to the Second Year must present satisfactory evidence of having completed the work of the First Year or its equivalent.

3. *To the Third Year*—In addition to the requirements for admission to the Second Year, applicants for admission to the Third Year must present satisfactory evidence of having completed the work of First and Second years, or its equivalent.

Students seeking a degree must, at the time of registration, present in addition to the requirements above mentioned satisfactory evidence of having completed a course of study, the minimum requirement of which is as follows:

*Arithmetic*, *Civil Government*, *Geography*, *Grammar*, *History of the United States*, *Physical Geography*, *Physiology*, *Rhetoric*, *Physics*, (Gage or an equivalent) *Geometry*, *Algebra*, (Wentworth's elements or an equivalent); and, in addition, the equivalent of 75 hours per week for one term of 12 weeks (a total of 900 hours) chosen from any five or more of the following subjects, one at least being a Science and two at least being in History or Political Science (unless the applicant is especially permitted to offer approved substitutes): *Botany*, *Chemistry*, *English Constitutional History*, *English History*, *English Literature*, *French*, *Geology*, *General History*, *German*, *Greek*, *Latin*, *Logic*, *Physics*, *Political Economy*, *Psychology*, *Surveying*, *Trigonometry*, *United States Constitutional History*; provided, that not less than 65 hours for twelve weeks (a total of 780 hours) of this work shall be of collegiate or university grade. If this last mentioned work has been done by the candidate in a College or University of good standing, certificates of such institution will be accepted. In all other cases the candidate is subject to examination on the work required from this last group. In general, in the absence of satisfactory certificates, opportunity will be given for examination in any subject required for admission as above indicated. Blanks for applications for degrees will be furnished on request.

### FOR ADMISSION:

(On and after September, 1901.)

The following are the requirements:

1. *Arithmetic*, *Descriptive and Physical Geography*, *English Grammar*, and *United States History*.

2. *English Composition and English Classics*.—Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of several brief essays, of which one will be upon a subject drawn from the applicant's observation or experience, and the others upon topics requiring a knowledge of the following books, or equivalents: Shakespeare's *Merchant of Venice*, *Julius Caesar*, and *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Conciliation with the Colonies*; Macaulay's *Essays on Milton and Addison*; The Sir Roger de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of*



*Wakefield*; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*.

To meet the English requirement the schools should provide courses in composition-practice and courses in English classics extending side by side through the preparatory years.

In the courses in composition, pupils should be afforded regular and abundant practice in preparing narrative, descriptive, expository and argumentative themes, and should be familiarized with those principles of Rhetoric which are most helpful in composition, such as the principles of sentence-structure, outlining, paragraphing, and choice of words. Scott and Denney's *Composition-Rhetoric* is recommended as a guide. The study of specimens of bad English from a text-book is not recommended; in order to insure accuracy, a considerable amount of the written work of the pupils should be corrected by the teacher and revised and rewritten by the pupils themselves. Some of the composition-work may be based upon the reading prescribed above, but much of it should be based upon the observation and experience of the pupils.

In the course in English classics, pupils should read the prescribed books with sufficient care to become familiar with the plot, incidents, and characters of all of them and should also learn something of their authors and of their places in literary history. A few of these books, or portions of all of them, should be examined closely with reference to form, structure, method, language, and leading characteristics of style. The voluntary outside reading of additional books should be encouraged by the teacher. In connection with all of the reading it is recommended that the memorizing of notable passages of prose and poetry be required.

3. *Algebra*—Taylor's *Academic* or equivalent.

4. *Botany*—Kellerman's *Elementary Botany and Spring Flora*

5. *Civil Government*—Fiske or Thorpe preferred.

6. *Geometry, Plane and Solid*—Venable, Wentworth or Wells.

7. *History*—Either Myers's *General History* (or equivalent); or, if the teacher's training and the school library will warrant, Greek and Roman History on the topical method. A circular concerning the topical method will be sent on application.

8. *Physics*—Carhart and Chute, Gage, Avery, or Appleton.

9. Any two of the following languages, in the quantity indicated below. Latin, Greek, French or German, or any one of them and the group of subjects named under (e) below.

(a) *Latin*—Pronunciation (the Roman method); Grammar (an exact knowledge of the inflections is essential); Cæsar, the first four books of the *De Bello Gallico*; Cicero, six orations, including *Pro Lege Manilia*; Vergil, the first six books of the *Aeneid*, with Prosody; Prose Composition, Daniell or Collar or Jones, entire.

(b) *Greek*—Grammar (Goodwin's preferred) and Prose Composition; or the first 100 lessons of White's *Beginner's Greek Book*. Reading: The first four books of Xenophon's *Anabasis*. At least two years should be devoted to this work.

(c) *French*—The whole subject of French Grammar. Applicants will be expected to read at sight easy French; and to translate correctly into French, simple English sentences. Two years ought to be given to this study, the first year being spent mainly on the Grammar with easy reading; the second devoted to reading good modern French, with grammatical analysis and exercises in writing. The texts read should be chiefly narrative and conversational prose; one or more prose comedies of the nineteenth (not the seventeenth) century should be included.

(d) *German*—Joynes-Meissner's or Thomas's Grammar is recommended. The essentials in these grammars should have been mastered thoroughly, *i. e.*, declensions of nouns and adjectives, pronouns, comparison of adjectives, prepositions, regular and irregular verbs and essentials of syntax. The following books or their equivalents must have been read (not less than 600 pages). Joynes's or Whitney's Reader; Hillern's *Höher als die Kirche*; Riehl's *Der Fluch der Schönheit*; Freytag's *Die Verlorne Handschrift*, Gerstäcker *Irrfahrten*.



(e) While the preferred requirement is that each candidate shall offer any two of the foregoing languages, he will be permitted to offer in place of one of the two the following group:

1. *Chemistry*—Williams' or Remsen's.
2. *Physiology*—Martin's (briefer course).
3. *English Literature*—Pancoast's Introduction to English Literature and an acquaintance with representative works in each period; or, *English History*, Montgomery.

In addition to the foregoing requirements for admission to the work of the College, *each candidate for a degree* must submit satisfactory evidence that he has successfully pursued a course of study equivalent to the first two years of any course leading to a degree in the College of Arts, Philosophy and Science, of this University. Where this work has been done in a college or university of approved standing, the certificate of said college or university will be accepted. In all other cases the candidate will be subject to examination in such work.

## COURSE IN LAW

### FIRST YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
Elementary Law (including Domestic Relations) .....	15	Agency .....	2
		Contracts .....	4
		Criminal Law .....	3
		Sales .....	2
		Torts .....	4
	15		15

### TEXT-BOOKS

*First Semester*—Elementary Law (Robinson, Walker, Tenth Ed., and Blackstone).

*Second Semester*—Agency (Mechem); Contracts (Bishop); Criminal Law (Hawley); Sales (Tiedeman); Torts (Cooley).

### SECOND YEAR

Bailments .....	3	Construction of Contracts.....	2
Commercial Law .....	5	Evidence .....	2
Evidence .....	2	Partnership .....	2
Pleading .....	4	Pleading .....	2
Moot Court .....	1	Real Property .....	4
		Wills .....	2
		Moot Court .....	1
	15		15

### TEXT-BOOKS

*First Semester*—Bailments (Hale); Commercial Law (Tiedeman); Evidence (Greenleaf, Sixteenth Ed.); Pleading (Phillips), and Kinkad's Selections.

*Second Semester*—Construction of Contracts (Jones); Partnership (Parsons); Real Property (Tiedeman); Wills (Page).

### THIRD YEAR

Circuit and Supreme Court Practice.....	1	Corporations (Private) .....	2
Constitutional Law } .....	4	Corporations (Municipal), Negligence of.	3
International Law }		Ethics .....	2
Corporations (Private) .....	2	Federal Practice .....	2
Corporations (Municipal) .....	2	Mortgages } .....	2
Equity Jurisprudence .....	4	Suretyship }	
Probate Law .....	2	Trial Practice .....	2
Moot Court .....	1	Moot Court .....	1
	16		14

Thesis for graduation to count for two hours through second semester.

## TEXT-BOOKS

*First Semester*—Constitutional Law (Black); Private Corporations (Taylor); Municipal Corporations (Tiedeman); Equity Jurisprudence; Probate Law (Whittaker's Probate Code).

*Second Semester*—Ethics (Sharswood); Trial Practice (Kinkead); Negligence of Municipal Corporations (Jones); Suretyship (Baylies).

## PURPOSE AND METHODS

It is the purpose of this College to furnish such legal training as will secure the most favorable judgment of the profession, and such as will fit students for practice in any part of the country.

The aim is to teach an accurate knowledge of the principles of the law, and to illustrate the application of these principles to the practical affairs of life—to teach students both to know and to apply the law. The instruction offered includes a Course containing three years of nine months each. It requires about fifteen hours of lecture and recitation work per week each year, and embraces all the elementary and practical studies necessary for admission to the Bar of any State administering the Common Law.

The methods of instruction combine the advantages of all approved systems and appliances—the text-book and recitation system, the lecture system, and the case system. Charts, outlines, analyses, essays, note-taking, oral and written lectures, reviews and examinations are used; and exercises are given in drafting contracts, abstracts, conveyances, wills, protests, mercantile contracts, pleadings, indictments, and other legal papers. Briefs, arguments in moot courts, etc., are required. Attention is given to the study and accurate analysis of leading cases.

## GENERAL REGULATIONS

## IRREGULAR STUDENTS

In special cases, students who have had part of the studies of the First Year and part of those of the Second Year, or part of those of the Second Year and part of those of the Third Year, may be examined on whatever subjects they may select and may take part of the studies of both years, if the Faculty is satisfied that the applicants can do so to advantage. If candidates for a degree, such applicants must meet all the other requirements and have all the other qualifications of those seeking a degree.

## SPECIAL STUDENTS

Persons wishing a knowledge of legal principles *for business purposes only*, but not intending to apply for a degree or to take a full course, may be admitted at any time as special students, and may avail themselves of such advantages of the College as they may deem expedient. Their convenience will not be taken into consideration in arranging classes, and they must make satisfactory arrangements as to fees, hours of recitation, etc., with the Dean.

## ENTRANCE EXAMINATIONS

Entrance examinations, except for those seeking a degree, will not be technical; the object being to ascertain the results of previous training and practical capacity to appreciate the technical study of the law.

## APPLICATIONS FOR DEGREES

*At the time of registration* all applicants who seek degrees should present their diplomas and certificates of work done. These certificates should state in detail

the studies pursued, the text-books used, the amount of work done in each study, the amount of time devoted to it, the date of the examination, and the rank or standing of the candidate in it. A copy of the course of study must accompany the certificate in all cases, and must accompany it where equivalents are offered. These statements should also be accompanied by information as to age, occupation, experience, and work done since leaving school. Blanks for application will be furnished on request made to the Dean.

#### EXAMINATIONS

Examinations are held from time to time to test the student's knowledge of the work he has gone over. They are usually written, but sometimes oral.

#### THESIS

Each candidate for a degree is required to prepare and deposit with the Faculty, at least six weeks before the end of the year of graduation, a thesis of not less than fifteen hundred nor more than five thousand words, exclusive of citations of authorities, upon some subject selected by himself with the approval of the professor giving instruction in that division of law from which the subject is chosen.

#### DEGREES

The degree of Bachelor of Laws (LL. B.) will be conferred on all who, being at least twenty-one years of age and having met the requirements necessary for entrance for a degree, pass satisfactorily the examinations at the close of the Senior year, after having done at least the last year's work in the College of Law at the University, and having presented a thesis acceptable to the Faculty.

The degree of Master of Laws will be conferred upon any one who has received the degree of Bachelor of Laws at this University, or other approved University or College, upon completing the studies of the Graduate year, and satisfactorily passing an examination therein, and presenting a satisfactory thesis; the subject of which has been chosen from the field included in the Graduate year.

#### CERTIFICATES OF WORK DONE

Those who have completed the studies of the College, but have not complied with the requirements for a degree, will be given an official certificate, showing the work done, and signed by the President of the Board of Trustees, the President of the University, and the Dean of the College of Law.

#### ADMISSION TO THE BAR

The regular Supreme Court examination for the admission to the bar is held on the first Tuesday in June of each year. Seniors are required to take this examination before they can receive the degree or certificate above mentioned.

#### COURSE OF INSTRUCTION

The Course of Study is three years of nine months, or thirty-six weeks, each; covering about fifteen hundred hours of work. It is so arranged that each class will have an average of three recitations a day, each one hour in length, thereby doing the same amount of work that is done in a regular University course.

#### MOOT COURT

Second Year and Third Year students will have Moot Court, under the supervision of the Dean, throughout the year, not less than one hour each week. The



object of Moot Court is to give practical insight into the conduct of trials, examination of witnesses, production of evidence, etc.

## ADVANTAGES

### LOCATION

Attention is called to Columbus as a place in which to study law. Here the Legislature meets. Here are the Supreme Court and Circuit Court; four branches of the Common Pleas Court, in almost daily session throughout the college year; the Probate Court, the County Commissioners, the City Court, the several Magistrates' Courts; also the U. S. Circuit and District Courts. All are easy of access from the College. "There is no place where law is learned so quickly and thoroughly as among the lawyers. No teaching is so effective as the object lessons of the trial of cases in court."

### LIBRARIES

The following libraries are accessible to the students:

The Law Library of the College contains the Noble Law Library, the Emerson McMillin Law Library, the Critchfield Law Library, and three sets of the Ohio and the Ohio State Reports; about 3,000 well selected volumes.

The University Library contains 25,000 volumes of very carefully selected books upon all subjects. This is quite complete in the more recent standard works upon history and political science, philosophy, etc. A good collection of the leading scientific, technical and literary magazines and journals is to be found here.

The State Law Library, of about 35,000 volumes—the largest and most complete Law Library in the State. It contains complete sets of the English, Scotch, Irish, Canadian, United States, and State Reports, Statutes and Digests, as well as all the important text books and leading periodicals published. This library is located in the new State Supreme Court building. It is designed wholly for reference, and students are warned that they must not use the library rooms as a study room, and that the text books found here are to be used for reference only. No student is expected, nor will he be permitted, to use these books instead of providing himself with those required in the course.

The State Library, in the State House—a library of general literature, history, science, biography, political and social science, philosophy, etc., comprising some 65,000 volumes. The leading magazines, journals, etc., are also to be found here.

The University Libraries are open from 7:30 a. m. to 9:30 p. m. during the five days in which the University is in session, and on Saturdays from 8 a. m. to 4 p. m. The State Law Library is open six days in the week, from about 8:30 a. m. to 5:30 p. m., with the exception of about an hour or an hour and a half at noon. The State Library is open six days in the week from 9 a. m. to 12 m., and from 2 p. m. to 5 p. m.; and when the Legislature is in session, from 7 p. m. to 9 p. m.

The City Library, with 30,000 volumes and a fine reading room, may also be used by students, under reasonable restrictions.

### THE UNIVERSITY COURSES

Attention is called to the great advantage of attending a law school in close and vital connection with the University affording the means of a liberal, practical and technical education. Students who are disposed to work faithfully may, at the same time that they are acquiring a technical knowledge of the law, supplement their general education by joining University classes, in departments which they may elect, subject to the requirements for admission to such departments, without extra charge except for laboratory work. Not alone from the courses in History and Political Science, or from those in Mental and Moral Philosophy, should this



work be selected, but also from the courses in Civil, Mine, Mechanical, and Electrical Engineering, from the courses in Anatomy and Physiology, Economic Geology, etc. To the average practitioner, there will come ten questions involving the principles of surveying or engineering to one of the constitutional law or English history. Not a day passes in the litigation of the courts but that numerous questions of anatomy, physiology, surveying or engineering arise and are to be decided. Particular attention, therefore, is called to the technical courses offered by the University, which will be open to those in the College of Law who are able to take them without interfering with the required law work. The following departments offer courses which will prove beneficial to those who have not had such training as would enable them to take more technical work: Botany, Physiology, Physics, Civil Engineering, Mine Engineering, Chemistry (Toxicology), Geology, Philosophy, History, English.

### EXPENSES

Each undergraduate student of the University is required to pay an incidental fee of fifteen dollars a year, and in this College a tuition fee of forty-five dollars; a total of thirty dollars for each semester, which is payable at the beginning of each semester.

Graduate students are required to pay a fee of thirty dollars for the year.

A fee of five dollars (to cover the expenses of graduation, diplomas, certificates, etc.,) is charged to all who receive the diploma or certificate, and a fee of ten dollars is charged to those taking the degree of Master of Laws. These fees must be paid before the degrees are conferred, or certificates delivered.

Good boarding and lodging, convenient to the University, can be obtained at from \$3.50 to \$5.00 per week.

The text-books used in this College can be obtained at the University at students' prices. The University has no pecuniary interest in these books or the sale of them, and they are permitted to be sold here merely for the convenience of the students.

The books for the first year.....	\$ 41 00
For the second year.....	40 00
For the third year.....	36 00
<hr/>	
Total for three years.....	\$ 117 00

## THE COLLEGE OF PHARMACY

FOR ADMISSION TO THE FOUR-YEAR COURSE<sup>1</sup>

The following are the requirements:

1. *Arithmetic, Descriptive and Physical Geography, English Grammar, and United States History.*
2. *English Composition and English Classics.*—Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of several brief essays, of which one will be upon a subject drawn from the applicant's observation or experience, and the others upon topics requiring a knowledge of the following books, or equivalents: Shakespeare's *Merchant of Venice*, *Julius Caesar*, and *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Conciliation with the Colonies*; Macaulay's *Essays on Milton and Addison*; The Sir Roger de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*.

To meet the English requirement the schools should provide courses in composition-practice and courses in English classics extending side by side through the preparatory years.

In the courses in composition, pupils should be afforded regular and abundant practice in preparing narrative, descriptive, expository and argumentative themes, and should be familiarized with those principles of Rhetoric which are most helpful in composition, such as the principles of sentence-structure, outlining, paragraphing, and choice of words. Scott and Denney's *Composition-Rhetoric* is recommended as a guide. The study of specimens of bad English from a text-book is not recommended; in order to insure accuracy, a considerable amount of the written work of the pupils should be corrected by the teacher and revised and rewritten by the pupils themselves. Some of the composition-work may be based upon the reading prescribed above, but much of it should be based upon the observation and experience of the pupils.

In the course in English classics, pupils should read the prescribed books with sufficient care to become familiar with the plot, incidents, and characters of all of them and should also learn something of their authors and of their places in literary history. A few of these books, or portions of all of them, should be examined closely with reference to form, structure, method, language, and leading characteristics of style. The voluntary outside reading of additional books should be encouraged by the teacher. In connection with all of the reading it is recommended that the memorizing of notable passages of prose and poetry be required.

3. *Algebra*—Taylor's *Academic* or equivalent.
4. *Botany*—Kellerman's *Elementary Botany* and *Spring Flora* or equivalent.
5. *Civil Government*—Fiske or Thorpe preferred.  
Or History—Myers's *General History*.
6. *Geometry, Plane and Solid*—Venable, White, Wentworth, or Wells.
7. *Latin*—Pronunciation (the Roman Method); Grammar (an exact knowledge of the inflections is essential); Cæsar, the first three books of the *De Bello Gallico*.

Or *German*—Joynes-Meissner's or Thomas's *Grammar* is recommended. The essentials in these grammars should have been mastered thoroughly, i. e., declensions of nouns and adjectives, pronouns, comparison of adjectives, prepositions, regular and irregular verbs and essentials of syntax.

The following books or their equivalents must have been read (not less than 600 pages.) Joynes's or Whitney's *Reader*; Hillern's *Höher als die Kirche*; Riehl's *Der Fluch der Schönheit*; Freytag. *Die Verlorne Handschrift*; Gerstäcker *Irrfahrten*.

For the present, the *German* required for admission may be begun at the University, but without University credits.

8. *Physics*—Carhart and Chute, Gage, Avery, or Appleton.

## COURSE IN PHARMACY

Note—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

*Degree: Bachelor of Science in Pharmacy*

## FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Chemistry (7)	5.	Chemistry (7)	5.	Chemistry (12)	5.
Inorganic.		Inorganic.		Qualitative Analysis.	
Latin (1)	5.	Latin (1)	5.	Latin (1)	5.
Pharmaceutical		Pharmaceutical		Pharmaceutical	
or		or		or	
German (1)	4.	German (1)	4.	German (1)	4.
Elementary.		Elementary.		Elementary.	
Mathematics (14)	5.	Mathematics (15), (16)	5.	Mathematics (17)	5.
Plane Trigonometry.		Spherical Trigonometry,		Plane Analytics.	
		Algebra.			
Rhetoric (5)	2½.	Rhetoric (5)	2½.	Rhetoric (5)	2½.
Paragraph Writing.		Theme Writing.		Prose Analysis.	
Cadet Service (men).		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical		Hygiene and Physical		Hygiene and Physical	
Training (women).		Training (women).		Training (women).	

## SECOND YEAR

Botany (6a)	5.	Botany (4)	2.		
Systematic,		Medical.			
Physiological.					
Chemistry (20)	4.	Chemistry (20)	4.	Chemistry (20)	4.
Laboratory.		Laboratory.		Laboratory.	
German (2)	2.	German (2)	2.	German (2)	2.
Scientific Reading.		Scientific Reading.		Scientific Reading.	
Pharmacy (6)	3.	Pharmacy (7)	5.	Pharmacy (8)	5.
General Processes.		U. S. Pharmacopeia.		Dispensatories, etc.	
Physics (11)	3.	Physics (11)	3.	Physics (11)	3.
Mechanics and Heat.		Electricity & Magnetism.		Sound and Light.	
				Metallurgy (2)	3.
				Mineralogy.	
Chemistry (21)	2.	Chemistry (21)	2.	Chemistry (21)	2.
Advanced Inorganic		Advanced Inorganic		Advanced Inorganic	
and Physical.		and Physical.		and Physical.	
Cadet Service (men).		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical		Hygiene and Physical		Hygiene and Physical	
Training (women).		Training (women).		Training (women).	

## THIRD YEAR

Pharmacy (9)	5.	Pharmacy (10)	5.	Pharmacy (11)	5.
General Processes.		Prescriptions.		Dispensatories, etc.	
Pharmacy (12)	3.	Pharmacy (13)	3.	Pharmacy (14)	3.
Materia Medica.		Materia Medica.		Mat. Medica & Thera.	
Physiology (1)	3.	Physiology (1)	3.	Physiology (1)	3.
Human Anatomy.		Physiology.		Physiology.	
General Chemistry (8)	5.	Physiology (8)	2.	Physiology (5)	2.
Organic.		Bacteriology.		Microscopy.	
		General Chemistry (9)	5.	General Chemistry (9)	5.
		Laboratory.		Laboratory.	

## FOURTH YEAR

Geology (5)	5.	Geology (6)	3.	General Chemistry (11)	4.
General.		General.		Toxicology.	
Pharmacy (15)	5.	Pharmacy (16)	5.	Pharmacy (17)	5.
Assaying.		General.		General.	
Thesis.		Thesis.		Thesis.	

Chemistry elective for the year—five hours.

Elective, three hours through the year.

## THESIS

As a requisite for graduation, each candidate must present an acceptable thesis embodying the results of special study and research. The subject must be within the field of Pharmacy, and must be announced to the President of the University (dependent upon the written approval of the proper authorities) not later than the beginning of the second term of the fourth year of the Course. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

## SHORT COURSE IN PHARMACY

## FOR ADMISSION

Candidates for admission who are less than twenty-one years of age must be prepared in the common English branches. Teachers' certificates (in force), or credentials from approved schools, will be accepted in lieu of an examination.

## FIRST YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Chemistry (7)	5.	Chemistry (7)	5.	Botany (1)	5.
Inorganic.		Inorganic.		Elementary.	
Latin (1)	5.	Latin (1)	5.	Chemistry (12)	5.
Pharmaceutical.		Pharmaceutical.		Qualitative Analysis.	
Physics (1)	5.	Physics (1)	5.	Latin (1)	5.
Elementary.		Elementary.		Pharmaceutical.	
Pharmacy (6)	3.	Pharmacy (7)	5.	Pharmacy (8)	5.
General Processes.		U. S. Pharmacopeia.		Dispensatories, etc.	
Cadet Service (men).		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical		Hygiene and Physical		Hygiene and Physical	
Training (women).		Training (women).		Training (women).	

## SECOND YEAR

Botany (6a)	5.	Botany (4)	2.	Chemistry (11)	4.
Systematic, Phys.		Medical.		Toxicology.	
Chemistry (18)	5.	Chemistry (18), (19)	5.	Chemistry (19)	5.
Organic.		Organic.		Organic, Quantitative.	
Pharmacy (9)	5.	Pharmacy (10)	5.	Pharmacy (11)	5.
Phar. Chemistry.		Prescription Practice.		Dispensing Practice.	
				Physiology (1)	3.
Physiology (1)	3.	Physiology (1)	3.	Physiology.	
Human Anatomy.		Physiology.		Physiology (5)	2.
		Physiology (8)	2.	Microscopy.	
		Bacteriology.			
Cadet Service (men).		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical		Hygiene and Physical		Hygiene and Physical	
Training (women).		Training (women).		Training (women).	



## COLLEGE OF VETERINARY MEDICINE

## FOR ADMISSION:

The following are the requirements:

I. For applicants for certificates of Veterinary Surgeon: *Arithmetic, Geography and Grammar.*

II. For applicants who intend to become candidates for the degree of Doctor of Veterinary Medicine:

1. *Arithmetic, Grammar, and Descriptive and Physical Geography.*

2. *English Composition and Rhetoric*—Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of two essays of about two hundred words each. The first essay will be upon a subject drawn from the candidate's observation or experience; as "A description of my native town," "The most remarkable person I ever met," "My reasons for seeking a University education." The second essay will be upon a subject drawn from a list of classics which will be furnished on application.

3. *History*—History of the United States, Johnson preferred.

4. *Latin or German*—One year.

5. *Pyhsics*—Gage, Carhart and Chute, Avery, or Appleton.

6. *Botany*—Kellerman's Elementary Botany and Spring Flora or equivalent.

## COURSE IN VETERINARY MEDICINE

Note—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

*Degree: Doctor of Veterinary Medicine*

## FIRST YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Agr'l Chemistry (1)	5.	Agr'l Chemistry (8)	5.	Agr'l Chemistry (9)	5.
Principles.		Organic.		Applications.	
Physiology (1)	3.	Physiology (1)	3.	Physiology (1)	3.
Human Anatomy.		Physiology.		Physiology.	
Physiology (4)	5.	Physiology (4)	5.	Physiology (4)	5.
Histology.		Histology.		Phys. Chemistry.	
Veterinary Medicine (28)	5.	Veterinary Medicine (28)	5.	Veterinary Medicine (28)	5.
Anatomy.		Anatomy.		Anatomy.	
Cadet Service.		Cadet Service.			

## SECOND YEAR

Agriculture (8)	4.	Agriculture (9)	4.	Agriculture (10)	4.
Breeds of Live Stock.		Stock Breeding.		Stock Feeding and Hygiene.	
Pharmacy (12)	5.	Pharmacy (13)	5.	Pharmacy (18)	5.
Materia Medica.		Materia Medica.		Laboratory.	
Veterinary Medicine (14)	4.	Veterinary Medicine	5.	Veterinary Medicine	5.
General Pathology.		Theory & Practice.		Theory & Practice.	
Veterinary Medicine	1.	Veterinary Medicine (18)	5.	Veterinary Medicine (18)	5.
Helminthology.		Surgical Diseases.		Surgical Diseases.	
Veterinary Medicine (19)	12.	Veterinary Medicine (19)	12.	Veterinary Medicine (19)	12.
Clinic.		Clinic.		Clinic.	
Veterinary Medicine (24)	5.				
General Surgery.					
Cadet Service.		Cadet Service.		Cadet Service.	

<sup>1</sup> An applicant for admission who may be somewhat in arrears in any given subject, will find opportunity to make up this work in the Columbus High Schools, which are fully accredited by the University.

## THIRD YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Veterinary Medicine	3.	Veterinary Medicine (21)	3.	Veterinary Medicine (22)	5.
Theory & Practice.		Theory & Practice.		Therapeutics.	
Veterinary Medicine (19)	12.	Veterinary Medicine (25)	3.	Veterinary Medicine (19)	12.
Clinic.		Practice in Operating.		Clinic.	
Veterinary Medicine (27)	4.	Veterinary Medicine (19)	12.	Veterinary Medicine (26)	5.
Meat Inspection.		Clinic.		Horse Shoeing.	
Veterinary Medicine (18)	5.	Physiology (6)	3.	Veterinary Medicine (33)	2.
Surgical Diseases.		Bacteriology.		Opthalmology.	
Veterinary Medicine (31)	3.	Veterinary Medicine (23)	3.	Thesis	2.
Canine Diseases.		Obstetrics.			
Veterinary Medicine	1.	Veterinary Medicine (32)	3.		
Milk Inspection.		Canine Diseases.			
		Thesis	2.		

## THESIS

As a requisite for graduation candidates for the degree of D. V. M. must present an acceptable thesis embodying the results of a special research. The subject must be announced to the President of the University (dependent upon the written approval of the head of the department in which it lies) not later than the beginning of the second term of the third year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

Candidates for a Certificate of Veterinary Surgeon are not required to present a thesis.



## THE DEPARTMENTS





# The Departments

1900-1901

The subjects set forth under each Department limit and define the administrative authority and responsibility of the head of that Department.

## AGRICULTURE

[TOWNSHEND HALL]

*Professor Hunt, Associate Professor Gibbs, Assistant Professor Decker, Mr. Herrick, Mr. Ruhlen.*

- 8<sup>1</sup>. **BREEDS OF LIVE STOCK.** Lectures and recitations three times a week upon the history, characteristics, adaptation, care and management of the different breeds of domestic animals. Practicum once a week in scoring and judging live stock. First term.
9. **PRINCIPLES OF BREEDING.** Lectures and recitations three times a week upon laws of heredity and their practical applications. Practicum once a week in scoring and judging live stock, and in writing and tracing pedigrees. Second term.
10. **STOCK FEEDING AND HYGIENE.** Lectures and recitations three times a week upon the laws of nutrition, the character of food stuffs, the relation of the food to the animals, and the kind and quantity of food to produce given effects. Practicum once a week in calculating digestibles, nutritive ratios and feeding standards. Third term.
11. **FARM EQUIPMENT.** Lectures and recitations three times a week upon selecting, planning and equipping farms; planning and erecting farm buildings and fences; building roads; farm vehicles and machinery; power, water and drainage. Practicum once a week in drawing plans of farms and farm buildings; leveling and laying drains; dynamometer tests of wagons and farm implements. First term.
12. **SOILS.** Lectures and recitations three times a week upon the origin, formation, kinds, and physical properties of soils, and their improvement by cultivation, fertilization, drainage, and irrigation. Practicum once a week in laboratory testing physical properties of several soils, determining the relation of soils to heat, moisture, air, and fertilizers, and making mechanical analysis. Second term.
13. **FARM CROPS.** Lectures and recitations three times a week upon the history, production, marketing, cultivation, and harvesting of farm crops. Practicum once a week with growing and dried specimens of farm crops, including grasses, clovers, and other forage crops. Third term.
14. **ANIMAL MECHANICS AND EXTERIOR.** Lectures and recitations three times a week upon animal mechanics, proportions, and the relation of the latter to specific uses. Practicum once a week in measuring animals and testing the value of given measurements for given purposes. First term.

<sup>1</sup> These numbers are "finding numbers," and do not necessarily indicate the sequence of topics.

15. **BUTTER MAKING AND CHEESE MAKING.** Recitations twice a week. Laboratory practice two half days each week in running separators, churning and working butter, making cheese, and testing and pasteurizing milk. Second term.
16. **HISTORY OF AGRICULTURE AND RURAL ECONOMICS.** Lectures and recitations upon the history of agriculture; present agricultural methods in various countries; cost and relative profits of various farm operations and systems. Four times a week. Third term.
5. **DAIRY FARMING.** Lectures twice a week upon breeds, and upon feeding, breeding and selecting dairy stock; equipment and management of dairy farms. Practicum once a week in scoring and judging live stock, writing pedigrees, and calculating feeding standards. Second term.
6. **BUTTER MAKING AND CHEESE MAKING.** Practice in running separators, churning and working butter, etc., making cheese and testing and pasteurizing milk. Four half days each week. Second term.
7. **BUTTER MAKING AND CHEESE MAKING.** Lectures and recitations. Two hours each week. Second term.
15. **BUTTER AND CHEESE MAKING.** Lectures twice a week. Laboratory practice twice each week. This course is the same as courses 6 and 7, except that less laboratory practice is taken. Second term.
17. **MILK SANITATION.** Three times a week. First term. Lectures on and laboratory practice in what constitutes pure dairy products.

### AGRICULTURAL CHEMISTRY

[TOWNSHEND HALL, Rooms 29, 35, 34 and 30]

*Professor Weber, Mr. Vinsom*

1. **PRINCIPLES OF CHEMISTRY AND CHEMICAL NOMENCLATURE.** Lectures and textbooks for three or four weeks, five times a week; then lectures twice a week on Chemistry of Non-metals, and laboratory practice three times a week. First term.
8. **ORGANIC CHEMISTRY.** Lectures twice a week; laboratory practice three times a week. Second term.
9. **APPLICATION OF CHEMISTRY TO AGRICULTURE.** Lectures twice a week; laboratory three times a week. Third term.
4. **LABORATORY.** Analysis of fertilizers, feed-stuffs, dairy products, fruits, vegetables, alcoholic liquors, etc. Five laboratory periods a week through the year.
7. **CHEMISTRY OF MILK AND MILK TESTING.** Twice a week. Dairy Course.
6. **LABORATORY.** Elective. Five or three times a week through the year.

### AMERICAN HISTORY AND POLITICAL SCIENCE

(See History.)

### ANATOMY AND PHYSIOLOGY

[BIOLOGICAL HALL, Rooms 12 and 20]

*Professor Bleile, Assistant Professor Morrey, Mr. Dresbach*

COLLEGES OF AGRICULTURE, PHARMACY, AND VETERINARY MEDICINE

1. **HUMAN ANATOMY AND PHYSIOLOGY.** Lectures, recitations and laboratory work three times a week. First, second and third terms. This course must be preceded by, or accompanied with, a course of chemistry.

2. **GENERAL PHYSIOLOGY.** Lectures recitations and demonstrations. Three times a week. Third term. [Short Course in Agriculture.]
3. **CHEMICAL PHYSIOLOGY.** Three times a week. Third term. [Domestic Economy Course.]
4. **HISTOLOGY AND HISTO-CHEMISTRY.** Five times a week through the year. This course must be preceded by, or accompanied with, a course in chemistry.
5. **MICROSCOPY AND URINARY ANALYSIS.** Lectures and laboratory work. Twice a week. Third term.
6. **BACTERIA,** in their relation to Milk, Butter and Cheese. Lectures and laboratory work. Twice a week. Second term.
7. **BACTERIOLOGY.** Three times a week. Second term. [Veterinary Medicine.]
8. **BACTERIOLOGY.** One lecture, one laboratory period, a week. Second term. [Pharmacy.]
9. **PHYSIOLOGICAL LABORATORY.** Three times a week. [May include work in bacteriology.]

## COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

*First Semester*

- 51<sup>1</sup>. **HUMAN ANATOMY AND PHYSIOLOGY.** Lectures, recitations and laboratory work. Three times a week.
53. **PHYSIOLOGICAL LABORATORY.** Three laboratory periods a week.
55. **PHYSIOLOGICAL LABORATORY.** Five laboratory periods a week.
57. **BACTERIOLOGY.** One lecture, one laboratory period a week.
59. **HISTOLOGY AND HISTO-CHEMISTRY.** Laboratory. Five laboratory periods a week.
61. **BACTERIOLOGY.** One lecture, two laboratory periods a week.

*Second Semester*

52. Continuation of Course 51. Three times a week.
54. Continuation of Course 53. Three laboratory periods a week.
56. Continuation of Course 55. Five laboratory periods a week.
58. **MICROSCOPY.** Lectures and laboratory work. Twice a week. Last half of semester.
60. Continuation of Course 59. Five laboratory periods a week.
62. Same as Course 61.

## ANCIENT ART

(See Greek Language and Literature.)

## ARCHITECTURE

(See Drawing.)

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<sup>1</sup> "Finding numbers" from 51 upwards always indicate Semester work.



## ASTRONOMY

[THE EMERSON McMILLIN OBSERVATORY.]

*Associate Professor H. C. Lord, Director of the Observatory.**Mr. J. Warren Smith, Lecturer on Meteorology.*

## COLLEGE OF ENGINEERING

4. **ASTRONOMY, GEODESY AND LEAST SQUARES.** Lectures on practical Astronomy, supplemented by practice with the instruments of the Emerson McMillin Observatory. Text-book, Doolittle. Three times a week. (First Term, third year, Course in Civil Engineering.)
5. Continuation of 4. Three times a week. (Second Term, third year, Course in Civil Engineering.)
6. Continuation of 5. Four times a week. (Third Term, third year, Course in Civil Engineering.)

## COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

- 61, 62. **GENERAL ASTRONOMY.** Lectures and recitations twice a week throughout the year.
- 63, 64. **ASTRONOMY AND GEODESY.** Lectures on practical Astronomy, supplemented by practice with the instruments of the Emerson McMillin Observatory. Open to students who have had the Calculus. Text-book, Doolittle. Three times a week throughout the year.
- 55, 56. **THEORETICAL ASTRONOMY.** Lectures and Observatory practice. The theory of the undisturbed motion of a planet or comet and the calculation of ephemerides. Parabolic orbits from three complete observations. Orbits from three complete observations, including the eccentricity. Work in the Observatory with the twelve-inch equatorial. Definite orbits. Observatory work continued. Authorities: Watson, Klinkerfeus, Appolzer, and the astronomical journals. Five times a week throughout the year.
- 57, 58. **ASTRO - PHYSICS.** Lectures on the theory of the Spectroscope and its use in Astronomy, supplemented by practice with the large spectroscope of the Observatory. Five times a week through the year.  
Astronomy 55, 56, 57, 58 are open only to students who have had Calculus.
60. **METEOROLOGY.** Twice a week. Second half, second semester. Same as 3.
3. **METEOROLOGY.** Lectures on practical meteorology, supplemented by laboratory work in map and chart making, and regular observations with the instruments in use by Weather Bureau. Text-book, Davis; with the daily weather maps issued by the Bureau. Twice a week, third term.

## BOTANY

[BOTANICAL HALL]

*Professor Kellerman, Mr. Schaffner, Mr. Collett, Miss Dufour*

## COLLEGES OF AGRICULTURE, PHARMACY AND VETERINARY MEDICINE

1. **ELEMENTARY BOTANY.** Lectures, recitations and field work. Text-book: Kellerman's *Elementary Botany* and *Spring Flora* Must precede all other courses in this department except course 9. Five times a week. Third term.

4. **MEDICAL BOTANY.** Twice a week, second term. Similar to course 56 in the College of Arts, Philosophy and Science. Rereference book: Maisch's *Organic Materia Medica*.
6. **PHYSIOLOGICAL BOTANY.** Lectures, recitations and laboratory work. Coulter's Plant Structures. Five times a week. First term.
- 6a. **SYSTEMATIC AND PHYSIOLOGICAL BOTANY.** Lectures, recitations and laboratory work. Coulter's Plant Structures. Five times a week. First term.
7. **PHYSIOLOGICAL AND ECONOMIC BOTANY.** Lectures, recitations and laboratory work. Coulter's Plant Structures. Five times a week. Second term.
8. **VEGETABLE PATHOLOGY.** Lectures, recitations and laboratory work. Five times a week. Third term.
9. **DENDROLOGY.** Lectures, field and laboratory work. Twice a week, first term. Open to students who have not studied Botany.

## COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

*First Semester*

51. **ECOLOGY AND PHYSIOLOGY.** Lectures and recitations twice a week; laboratory work once a week; credit three hours. Coulter's Plant Relations.
57. **LABORATORY WORK.** Fungi, Algæ, Bryophyta. Two or three times a week.
59. **ADVANCED LABORATORY WORK IN HISTOLOGY AND PHYSIOLOGY** Five times a week. Open to students who have taken Course 51, or 57.
61. **SYSTEMATIC BOTANY, PHENOGAMIC AND CRYPTOGRAMIC.** Three to five times a week. Open to students who have taken Course 51, or 57.
63. **MONOGRAPHIC WORK.** Graduate Course. Credit five or ten hours.
65. **RESEARCH WORK IN MORPHOLOGY AND PHYSIOLOGY.** Graduate Course. Credit five or ten hours.

*Second Semester*

52. **MORPHOLOGY AND CLASSIFICATION.** Lectures and recitations twice a week; laboratory work once a week; credit three hours. Coulter's Plant Structures.
58. Continuation of Course 57. Pteridophyta, Gymnospermæ, Angiospermæ. Two or three times a week.
60. Continuation of Course 59. Five times a week.
62. Continuation of Course 61. Three to five times a week.
64. Continuation of Course 63. Credit five or ten hours.
66. Continuation of Course 65. Credit five or ten hours.

For Summer Courses in Botany, see Lake Laboratory.

## CHEMISTRY

[CHEMICAL HALL, Rooms 24, 25, 14, 21, 22, 7 and 18]

*Professor McPherson, Professor Norton, Assistant Professor Henderson  
Mr. Kohr, Mr. Gore*

## COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

*First Semester*

51. **ELEMENTARY CHEMISTRY.** Arranged for students who have little or no knowledge of Chemistry. Three sub-divisions; one lecture, one quiz, and three hours' laboratory practice weekly. In the laboratory the student performs an extended series of experiments illustrating the principles of Chemistry. Three hours credit.

53. **QUALITATIVE ANALYSIS.** Laboratory, lectures and quiz. Students familiarize themselves with the properties of the elements with a view to their detection, and then apply this knowledge to analysis of unknown substances. Three to five times a week. This course must be preceded by Courses 51 and 52.
55. **QUANTITATIVE ANALYSIS.** Laboratory, lectures and recitations. Use of the balance and general principles of gravimetric analysis. Drill in the solution problems in quantitative analysis; study of properties of precipitates; principles of volumetric analysis. Selections are made from such analytical methods as best meet the needs of the student. The samples used for analysis are mixtures or commercial products the percentage composition of which is not made known to the student until he has reported his own results. Three to five times a week. This course must be accompanied by course 69.
57. **ORGANIC CHEMISTRY.** Laboratory, lectures and recitations. Open only to students who are familiar with at least the principles of quantitative analysis. Five times a week.
59. **ADVANCED CHEMISTRY.** Laboratory. Arranged for special students who have had courses 53, 54, 55, 56, 57; also course 58 for students in Organic Chemistry. Students are allowed to select such work as they are capable of undertaking—as, the critical examination of analytical methods as well as the study of new methods. Five times a week.
- 61a. **INORGANIC PREPARATION.** Laboratory. This course includes the preparation of inorganic substances from the crude materials. Special attention is given to the preparation of chemically pure compounds, to be used in certain quantitative processes. Thorpe's text-book on Inorganic Preparations is used, and reference is made to Bender and Erdmans' *Anorganische Präparate* and Krausche's *Prüfung Chemischer Reagentien*. This course must be preceded by quantitative analysis. Four times a week until the Christmas Recess.  
Students electing this course must follow with theoretical chemistry and sanitary analysis.
- 61c. **HISTORICAL CHEMISTRY.** Lectures and recitations. A course of twelve weeks beginning after the Christmas Recess. Four times a week. Given biennially, offered in 1900-1901.
63. **CHEMICAL SEMINARY.** Special students will meet to discuss special topics and reviews of current literature. Once a week.
65. **ELECTROLYTIC ANALYSIS.** Laboratory. Extended practice is given in quantitative electrolytic analysis. Twice a week.
69. **ADVANCED GENERAL CHEMISTRY; PHYSICAL CHEMISTRY.** This course includes (a) a general survey of inorganic chemistry based upon the arrangement of the elements in accordance with the Periodic Law and (b) a discussion of the main principles of physical chemistry and their application to general processes. Twice a week.

*Second Semester*

52. Continuation of Course 51. Three hours credit.
54. Continuation of Course 53, including use of Spectroscope.
56. **QUANTITATIVE ANALYSIS.** Continuation of Course 55. Three to five times a week. This course must be accompanied by Course 70.



58. **ORGANIC CHEMISTRY.** Laboratory and lectures. Continuation of Course 57. Arranged for students who wish to specialize in organic chemistry. The course includes further preparation of typical organic compounds, their purification and analysis. Five times a week.
60. Continuation of Course 59.
64. Continuation of Course 63.
66. Repetition of Course 55.
68. **SANITARY ANALYSIS.** Laboratory and lectures. A study of the most important chemical methods for the analysis of water and air. This course must be preceded by quantitative analysis, and at least the equivalent of Course 61 in Anatomy and Physiology (bacteriology). The course extends over the last ten weeks of the second semester. Four times a week.
70. Continuation of Course 69.
- Students who can elect but one year of Analytical Chemistry, will take Courses 53 and 66. Others will take 53 and 54, then follow with 55, 56 and 57.

## COLLEGES OF ENGINEERING AND PHARMACY

7. **ELEMENTARY CHEMISTRY.** Inorganic. Lecture, Laboratory and Quiz. Laboratory work; First Term, experiments upon the non-metals; second term, principles of quantitative analysis. Five times a week.
8. **ORGANIC CHEMISTRY.** Lectures. Five times a week, first term.
9. **ORGANIC CHEMISTRY.** Laboratory and recitations. Five times a week. Second and third terms.
11. **TOXICOLOGY.** Four times a week. Third term.
12. **QUALITATIVE ANALYSIS.** Five times a week. Third term.
13. **QUALITATIVE ANALYSIS.** Three laboratory periods a week. Second term.
15. **SANITARY ANALYSIS.** Laboratory and lectures. A study of the most important chemical methods for the analysis of water and air. Four times a week. Third term.
16. **APPLIED CHEMISTRY.** Lectures on Industrial Chemistry. These are made as practical as possible by visits to different chemical works. When possible specialists deliver lectures on subjects belonging to their particular line of work. Four times a week. Second term.
17. **INORGANIC PREPARATIONS.** This course includes the preparation of chemically pure inorganic substances from the crude materials. Four times a week. Third term.
18. **ORGANIC CHEMISTRY.** Lectures and laboratory. Five times a week, for the first half of the year.
19. **QUANTITATIVE ANALYSIS.** Lectures and Laboratory. Five times a week for the second half of the year.
20. **QUANTITATIVE ANALYSIS.** Laboratory, lectures and recitations. Four times a week.
21. **ADVANCED GENERAL CHEMISTRY; PHYSICAL CHEMISTRY.** Twice a week. For Courses in the technical analysis of iron, steel and allied products, see the Department of Mining and Metallurgy. Four Courses dealing with the application of Chemistry to Agriculture, see the Department of Agricultural Chemistry.



## CIVIL ENGINEERING

[HAYES HALL, Rooms 14 and 19]

*Professor Brown, Assistant Professor Sherman, Mr. Groves*

1. **LAND SURVEYING.** Recitations and field work. Johnson's Theory and Practice of Surveying. Six times a week. First term. Second year.
2. **RAILROAD SURVEYING.** Recitations and field work. Searle's Field Engineering. Six times a week. Third term. Second year.
3. **TOPOGRAPHICAL SURVEYING.** Lectures, field work and drawing. Johnson's Surveying used for reference. Four times a week. First term. Third year.
4. **TOPOGRAPHY.** Platting, pen and tinted work. Reed's Topographical Drawing and Sketching. Four times a week. Second term. Second year.
5. **STEREOTOMY.** Recitations, drawing and model cutting. Warner's Stereotomy. Four times a week. Second term. Third year.
7. **BRIDGE STRAINS.** Recitations and lectures. Part I of Dubois's Strains in Framed Structures. Five times a week. Third term. Third year.
8. **BRIDGE DESIGNING.** Lectures and drawing. Part II of Dubois's Strains in Framed Structures and Johnson's Modern Framed Structures used for reference. Five times a week. First term. Fourth year.
10. **SANITARY ENGINEERING.** Lectures. Five times a week. Third term. Fourth year.
14. **CIVIL ENGINEERING LABORATORY.** Cement testing, adjustment of instruments. Twice a week, Second term. Fourth year.
15. **MASONRY CONSTRUCTION.** Recitations and lectures. Baker's Masonry Construction. Five times a week. First term. Fourth year.
6. **HIGHWAYS.** Lectures on roads, streets, canals, railroads and rivers. Five times a week. Second term.  
Fourth year students in Civil Engineering must elect either 16 or 17.
17. **RAILWAY LOCATION.** Recitations and lectures. Wellington's Economic Theory of Railway Location. Five times a week. Second term.  
Fourth year students must elect either 16 or 17.
18. **WATER SUPPLY.** Recitations and lectures. Fanning's Water Supply. Five times a week. Third term. Fourth year.
19. **TRUSSES.** Lectures and drawing. Five times a week. Third term. Third year, Mine Engineering and Mechanical Engineering.
20. **ROOF TRUSSES.** Lectures and drawing. Five times a week. First term. Third year, Architecture.
21. **SURVEYING.** Recitations and field work. Davies' Surveying. Three times a week. Third term.  
Third year, Architecture.
22. **SUMMER COURSE IN FIELD WORK.** The students are taken into camp in a rough, broken country and given a thorough drill in land and elementary railroad surveying. The course begins directly after commencement day, and continues four weeks of six days per week, ten hours per day. The work of the student and the discipline of the camp is in the hands of competent instructors. This course must be preceded by Courses 1, 2 and 4. Students conditioned on any of these courses, may be admitted at discretion of instructor in charge. (At conclusion of second year of course.)

23. **SUMMER COURSE IN FIELD WORK.** Similar to Course 22. Students work on advanced railroad surveying and topographical surveying. This course must be preceded by Courses 3, 22 and 24. Students conditioned in any of these courses may be admitted at discretion of instructor. (At conclusion of third year of course.)
24. **DRAWING OF ENGINEERING STRUCTURES.** Five hours a week. (Second Term, third year, Course in Civil Engineering.)

## CLAY WORKING AND CERAMICS

[ORTON HALL, Rooms 18, 27, 26 and 25]

*Professor Edward Orton, Jr., Mr. Bleininger*

1. **CERAMIC CHEMISTRY.** This course is open only to those who have Completed General Chemistry 12. The student begins the quantitative analysis of salts and chemicals, and later works on limestone and other easy materials. Five times a week. (First Term, second year, Course in Ceramics and Short Course in Clay-working.)
2. Continuation of Course 1. The student begins the quantitative analysis of clays and complex minerals, working first on samples of known composition, and later on unknown materials. Five times a week. (Second Term, second year, Course in Ceramics and Short Course in Clay-working.)
3. Continuation of Course 2. The student completes the ultimate analysis of clays and begins the proximate "Rational" analysis of clays and pottery bodies, following the methods of Seger. Five times a week. (Third Term, second year, Course in Ceramics and Short Course in Clay-working.)
4. **LECTURES ON CLAY MANUFACTURE.** (supplemented by frequent recitations). The origin, composition and properties of clays and other minerals employed in the clay, glass and cement industries. Five times a week. (First Term, third year, Course in Ceramics; and second year, Short Course in Clay-working.)
5. Continuation of Course 4. A series of lectures, with recitations, on the general principles of the manufacture of bricks and the coarser clay wares, including the selection and winning of the materials, their preparation, manufacture, burning and testing. Five times a week. (Second Term, third year, Course in Ceramics; and, second year, Short Course in Clay-working.)
6. Continuation of Course 5. A series of lectures, with recitations, on the classification and manufacture of pottery and the finer grades of clay wares, including the selection of the materials, preparation of the bodies, manufacture of the ware, preparation of the glazes, burning and decoration of the wares and the pyrometry of ceramics. Five times a week. (Third term, third year, Course in Ceramics; and, second year, Short Course in Clay-working.)  
Course in Ceramics; and, second year, Short Course in Clay-working.)
7. **CERAMIC CHEMISTRY.** Continuation of Course 3. Open only to those who have completed that course. The analysis of glasses and glazes, devoting special attention to the use of hydrofluoric acid in silicate analysis, and to the determination of lead and boracic acid. Five times a week. (Second term, third year, Course in Ceramics.)

9. **LABORATORY WORK IN CERAMICS.** Open only to those who have completed Courses 3 and 6. The student will undertake the production of such wares as are made from single clays; then wares made by blending two or more natural clays; and, then, such wares as are made from an artificial body. In each case the bodies made will be burnt and tested. Five times a week. (First Term, fourth year, Course in Ceramics.)
10. Continuation of Course 9. The student will practice on the production of glasses and glazes, beginning with the natural "slip glazes" and taking successively the soft raw-lead glazes, the fritted lead-boracic-acid glazes, and the hard-fibre leadless porcelain glazes. In each case the glazes will be made for use on some definite body, and will be made to "fit." Five times a week. (Second Term, fourth year, Course in Ceramics.)
11. Continuation of Course 10. The student will practice on the use of the coloring and opacifying oxides in glazes, and on the production of colors for the decoration of pottery, and of body-stains. Five times a week. (Third term, fourth year, Course in Ceramics.)
12. **LECTURES ON CEMENT MANUFACTURE.** The theory of hydraulicity, the compounding, manufacture and testing of natural and Portland cements and hydraulic silicates. Open to students who have had courses 3 and 6. Facilities for laboratory work in making, burning and testing cements will be given. Five times a week. (Second Term, fourth year, Course in Ceramics.)
14. **MINERAL REPORTS.** A series of lectures on the prospecting and opening of mineral properties and ceramic plants. Frequent trips will be made to the important clay-working centers of Ohio for field work and practice in observation. Students will be allowed to specialize along their intended lines. Five times a week. (Third Term, fourth year, Course in Ceramics.)
15. **THESIS.** As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of this study must lie within the field of the degree sought. The subject must be announced to the President of the University (dependent upon the approval of the head of the Department), not later than the beginning of the second term of the fourth year; and the completed thesis must be presented on standard paper of certain size and quality, type-written, bound, and titled, not later than the second Saturday before Commencement Day.
16. **GENERAL PRINCIPLES OF APPLIED CERAMICS.** A series of lectures on the chemical technology of the clay, glass and cement industries. Three times a week. (Third Term, fourth year, Course in Chemistry.)
17. **PRACTICE** in making drawings and specifications for brick kilns, brick dryers, pottery kilns, gas producers, glass pot-furnaces, glass tanks, cement kilns and burning cylinders. Students will be allowed to specialize along the lines they intend to follow. Four times a week. (Second Term, fourth year, Course in Ceramics.)



## DOMESTIC ECONOMY

[HAYES HALL, Rooms 1, 3, 10.]

*Associate Professor Bowman, Assistant Professor Souther*  
*Domestic Science*

1. **FOOD ECONOMICS.** One lecture and three laboratory periods each week. Four hours credit. Lectures embracing a study of the evolution of society as affected by food conditions; second, a study of food principles. Laboratory work includes experimental work with foods, and the preparation and serving of typical foods of certain classes. Offered in the first term of each year.
2. **FOOD ECONOMICS.** One lecture and three laboratory periods each week. Four hours credit. By lecture and research work, the relative nutritive and money values of foods are considered. Each student prepares a weekly dietary for the family; the amount to be expended limited by the instructor. United States Agricultural Bulletin standards used. Laboratory work is a continuation of Course 1. Offered in second term of each year.
3. **EMERGENCY WORK AND HOME NURSING.** One lecture and three laboratory periods each week. Four hours credit. The lectures, demonstrations and practical work are designed to set forth the principles underlying good nursing, to take up the dietetic treatment of various diseases and to consider such emergency cases as frequently require prompt treatment in the home. Food suitable for invalids, infants and convalescents is prepared in the laboratory. Offered in the third term of each year.
- 4a. **PRESERVATION OF FOODS.** Four weeks.
- b. **HYGIENE OF CLOTHING.** Eight weeks.  
 One lecture and three laboratory periods each week. Four hours credit.  
 (a). Includes a brief study of the causes of decomposition, a history of the methods employed in the preservation of foods, and practical work in canning, preserving, etc.  
 (b). Includes a study of fibres and their proper treatment. The properties and cleansing effect of water and soap; disinfecting clothing; the chemical treatment of stains and demonstrated work in practical laundry methods. Offered in the first term.
10. **HOUSEHOLD ECONOMICS.** Two hours lecture course. Elective. A consideration of the best location for a house; its hygienic and sanitary construction and arrangement and approved methods of lighting, heating and ventilating. Offered in the third term of each year.

## DOMESTIC ART.

5. **LECTURES** on the Industrial and Artistic Evolution of Society. History of the early race considered with special reference to the development in culture gained through hand-work. Practice work; Preparations of a series of models comprising the different stitches used in plain hand sewing; ornamental stitches and simple embroidery. One lecture and three practice periods each week. Four hours credit. Second term.
6. **LECTURES ON TEXTILES.** Study of fibres; their growth and the processes of manufacture. Comparative economic values of fabrics. Practice work; Machine and hand work on underwear; drafting from simple measurements; designing in pencil; use of patterns; making shirt waists or wash gowns; Simple straw hats and bows. One lecture and three practice periods a week. Four hours credit. First term.



7. **LECTURES ON HISTORIC COSTUME.** Consideration of line, form and color; hygienic and artistic dress; treatment of wool and silk fabrics. Practice work : Drafting patterns by use of Tailoring System. Cutting and fitting. Making wool dress. Making of hat frames, covering and trimming the same. One lecture and three practice periods a week. Four hours credit. First term.
8. **LECTURE AND PRACTICE WORK.** Continuation of Course 7. As much time as possible being given to pencil and water coloring designing of costumes and hats suitable to different wearers. Original designs required to be made and carried out in the case of each individual pupil. One lecture and three practice periods a week. Four hours credit. Second term.
9. **LECTURES ON HISTORY OF DOMESTIC ART AND ARCHITECTURE AND THE APPLICATION OF ART TO MODERN HOUSE DECORATION.** Practice work: Continuation of Course 8. Further work in practical costume making as may be designated by the instructor; the aim being to foster good taste and judgment in the use of expensive and inexpensive materials. Expressions of individuality encouraged but held subservient to general artistic principles, to rules of hygiene and to prevailing modes. One lecture and three hours practice work each week. Four hours credit. Third term.

Note. Individual instruction is given throughout. Pupils are required to furnish all materials except those used in making models of Course 5. A certain amount of work is required to be completed before admittance is given to the next higher grade of work.

## DRAWING

[HAYES HALL, Rooms 22, 24 and 37]

*Associate Professor Bradford, Assistant Professor French, Mr. Lewis*

1. **FREEHAND DRAWING.** Practice and occasional lectures. Pencil, charcoal, pen and water-color drawing from copies, models and plaster casts. One drawing period a week, three terms, Industrial Arts. Two drawing periods a week, first term, Short Mining and Domestic Economy. Two drawing periods a week, first and second terms; all four-year Engineering Courses. Three drawing periods a week, three terms, Architecture.
2. **LETTERING.** Practice and occasional Lectures. Two drawing periods a week, third term, Industrial Arts, and Short Mining. Three drawing periods a week, third term, Ceramics, Civil, Electrical, Mechanical and Mine Engineering, and Architecture. This Course must be preceded by Course 1.
3. **MECHANICAL DRAWING.** Lectures or recitations one period a week. Practice two periods a week. All Engineering, Industrial Arts, Architecture. Subjects: Orthographic, Isometric and Oblique Projection and elementary Working Drawings. First term. Lectures or recitations two periods a week. Practice one period a week, in Industrial Arts and in all Engineering Courses except Civil Engineering; three periods a week in Civil Engineering and Architecture. Subject: Descriptive Geometry. Second term. Lectures or recitations, one period a week. Practice, two periods a week in Engineering Courses; four periods a week in Architecture. Subject: Shades, Shadows and Perspective. Third term, in all four-year Engineering and Industrial Arts Courses and the Course in Architecture. First term in the Short Mining and Domestic Science Courses. This Course must be preceded by Course 2.

4. **DRAUGHTING AND BLUE-PRINTING.** Practice and occasional Lectures. Three periods a week, second term. Arranged especially for the students in the Short Mining Course. This Course must be preceded by the first term of Course (3).
5. **TECHNICAL DRAWING.** Lectures and Practice. Rules and methods for working drawings, tracing, blue-printing, machine design and practice in making same to represent form and dimensions for shop use. Three periods a week. First term, Mechanical and Electrical Engineering Courses. This Course must be preceded by Courses (2) and (3).
7. **PHOTOGRAPHY.** Lectures and Practice. Lectures: Optics of Photography, chemistry of photography, exposing and developing, printing, lantern slides, orthochromatic photography and some of the applications of photography. Practice in outdoor, interior, instantaneous and flash-light photography, copying, lantern slides, and printing. Two periods a week. Ceramics, Architecture, first term. Civil, Mechanical and Mine Engineering, third term. The first term of this Course is elective.
8. **MECHANICAL DRAWING.** Lectures and Practice. Geometric and Projection Drawing. Two periods a week, first and second terms, Industrial Arts.
10. **MECHANICAL DRAWING.** Lectures and Practice. Arranged especially for the students in Agriculture. Two periods a week, first term.
11. **MECHANICAL DRAWING.** Lectures and Practice. Arranged especially for the students in Short Course in Ceramics, five periods a week, third term.
12. **CLAY MODELING.** Modeling in Clay and Casting in Plaster, ornamental forms from designs, photographs, nature and original designs. Two periods a week; first, second and third terms.  
This Course must be preceded by Course (1).  
Domestic Economy Course, second term. Architectural Course, second and third terms. This Course must be preceded by Course (1).
13. **TECHNICAL AND DECORATIVE DESIGN.** Lectures and Practice. Lectures on the principles of decorative design in monochrome, color and relief, and practice in the same. Two periods a week; first, second and third terms.
14. **PEN DRAWING.** Two periods a week, first term. Arranged especially for the Course in Architecture. This Course must be preceded by Course (1).
15. **TECHNICAL DRAWING.** Lectures and Practice. House Designing. Five periods a week, third term. Domestic Economy.
16. **LECTURES AND PRACTICE.** Technical Drawing consisting of the designing and preparation of specifications of structures related to agriculture. Three periods a week, third term.

#### ART.

An elective course in Art offered by Department of Drawing. Must be preceded by Course 1 in Drawing or its equivalent elsewhere.

17. **LECTURES AND PRACTICE.** Lectures on color standards, color theory, color harmony, color appearances, tone and gradation, atmosphere and values. Practice in color work either water or oil color. First term. Lectures illustrated by lantern slides.
18. **LECTURES AND PRACTICE.** Lectures on objects of art, ideas and subjects, style and individuality, schools of art, great artists including old and modern masters. Illustrated by lantern slides. Practice in water or oil painting from still life. Second term.

19. **LECTURES AND PRACTICE.** Lectures will be a continuation of second term's work and including sculpture and the master sculptors. Illustrated by lantern slides. Practice in water or oil painting from life and nature or clay modeling. Third term. The above is to be offered as an elective for two or three hours as follows: Lecture for one hour and practice for two or four hours as the student has time.

### ARCHITECTURE.

4. **SPECIFICATIONS.** Lectures and practice in preparing Specifications for Architectural Structures. Two periods a week. (Second Term, fourth year, Course in Architecture.)
5. **DECORATION AND ORNAMENT.** Lectures on the different styles of carved ornament and decorative color. The practice part of this subject will be incorporated in the clay Modeling and Designing. Three periods a week. (First Term, third year, Course in Architecture.)
6. **ESTIMATES AND SUPERINTENDENCE.** Lectures and practice in preparing estimates for structures designed in Courses 8, 11, 12 and 13, and the duties of superintendence. Four periods a week. (Third Term, fourth year, Course in Architecture.)
7. **HEATING, VENTILATING AND PLUMBING.** Lectures and experimental work. Lectures on the principles and methods of heating and ventilating and sanitary plumbing. Experimental work is carried on with the heating and ventilating plants in the different University buildings. Five periods a week. (Second Term, fourth year, Course in Architecture.)
8. **DESIGNING.** Lectures and Practice. Steel skeleton and fire proof construction. Five periods a week. (Second Term, fourth year, Course in Architecture.)
9. **HISTORY OF ARCHITECTURE.** Lectures illustrated by lantern slides. Three periods a week. (First Term, second year, Course in Architecture.)
10. Same as 9. (Second Term, second year, Course in Architecture.)
11. Same as 10. (Third Term, second year, Course in Architecture.)
12. **ARCHITECTURAL DRAWING.** Drawing architectural ornament, details of orders and styles with the special object of impressing upon the student's mind the architectural characteristics considered in Course 9. Two periods a week. (First Term, second year, Course in Architecture.)
13. Same as 12. (Second Term, second year, Course in Architecture.)
14. Same as 12. (Third Term, second year, Course in Architecture.)
15. **DESIGNING.** Lectures and practice in designing structures adapted to modern requirements. Four periods a week. (First Term, third year, Course in Architecture.)
16. **DESIGNING.** Lectures and practice. Two periods a week. (Second Term, third year, Course in Architecture.)
17. **DESIGNING.** Lectures and practice. Four periods a week. (Third Term, third year, Course in Architecture.)
18. **DESIGNING.** Four periods a week. (First Term, fourth year, Course in Architecture.)
19. **DESIGNING.** Four periods a week. (Third Term, fourth year, Course in Architecture.)
20. **THESIS.** Original design, to be accompanied with written description, specifications and estimate. Five periods a week. (Third Term, fourth year, Course in Architecture.)



## ECONOMICS AND SOCIOLOGY

[UNIVERSITY HALL, Rooms 17 and 18]

*Associate Professor Clark.*

Course 51 or Course 52 must precede all other Courses.

## FIRST SEMESTER

51. **ELEMENTS OF POLITICAL ECONOMY.** A careful study of the laws of production, exchange, distribution and consumption of wealth; combined with an analysis of the industrial actions of men as regards land, labor, capital, money, credit, rent, interest, wages, etc. Text-book, lectures and individual investigations. Four times a week. This Course is repeated in the Second Semester (as Course 52). Students who are required to take the subject, those whose names begin with the letters L to Z will take it in the First Semester; others will take it in the Second Semester (as Course 52).
53. **THE HISTORY OF INDUSTRIAL SOCIETY.** A general view of the evolution of industrial society; and a study of causes and effects of past economic policies together with their bearing on existing conditions; with special reference to England and America. Lectures and assigned readings. Twice a week.
55. **PRACTICAL PROBLEMS IN ECONOMICS.** A rapid study of immigration, money, railroads, crises and tariff. Lectures and collateral readings. Twice a week.
57. **THE TRANSPORTATION PROBLEM.** A study of the development and present economic status of roads, canals and railroads in their relation to industry and to the state. Lectures. Twice a week.  
*Not offered in 1899-00.*
59. **PUBLIC FINANCE AND TAXATION.** This course aims to make the student acquainted with the theory of public revenue and expenditure; and with the leading systems of financial administration throughout the world. Municipal indebtedness and corporate financiering are incidentally treated. Text-book and lectures. Twice a week.  
*Not offered in 1899-00.*
61. **SEMINARY IN ECONOMICS.** Two hours a week at one meeting. All students who elect their Major Study in Economics must take this course in their fourth year. Open, as elective, to other students, graduate and advanced under-graduate, on permission of the instructor.
63. **SOCIOLOGY AND STATISTICS.** Lectures and laboratory work. One hour credit. This course may accompany courses 55, 57, 59 or 65.
65. **COMMERCIAL GEOGRAPHY.** A scientific study of business relations and conditions, domestic and foreign; the sources, quantity and quality of products, and the distribution of the same; trade routes and the means of communication. The Consular Reports will constitute one basis of study. Texts and lectures.

## SECOND SEMESTER

52. **ELEMENTS OF POLITICAL ECONOMY.** Text-book, lectures and individual investigations. Four times a week. (This is a repetition of Course 51, and will be taken in the Second Semester by those students (of whom it is required) whose names begin with the letters A to K.)
53. **THE HISTORY AND THEORY OF SOCIALISM.** Lectures and collateral readings. Twice a week.
56. **INDUSTRIAL AND SOCIAL REFORMS.** A study of labor problems, charities and corrections, monopolies, insurance, trusts, etc. Lectures and collateral readings. Twice a week.



58. **MONEY, CREDIT AND BANKING.** This course involves the history and theory of the subject; a comparative study of monetary systems, currency, etc.; together with various methods of banking; national banks, clearing houses, sub-treasury, etc.; and a critical analysis of proposals for reform. Texts, lectures and collateral readings. Twice a week.  
*Not offered in 1899-00.*
60. **INDUSTRIAL AND FINANCIAL HISTORY OF THE UNITED STATES.** A complete survey of American industries, financial resources and policies; public lands, government subsidies, internal revenue, etc.; history and description of the Treasury and Interior Departments, the Mints, etc. Lectures and collateral readings. Twice a week.
62. **SEMINARY IN ECONOMICS.** Two hours a week at one meeting. This is a continuation of Course 61, and is open only to those who have had that course. All students who elect their Major Study in Economics must take this Course in their fourth year. Open, as elective, to other students, graduate and advanced under-graduate, on permission of the instructor.
64. **SOCIOLOGY AND STATISTICS.** A continuation of Course 63. One hour credit. May be taken separately or accompany Courses 56, 58, 60 or 66. Courses 1 and 2 in the College of Agriculture and Domestic Science are the same as Courses 51 and 52 described above.
66. **COMMERCE AND TRADE.** Theory and practice of business. Standard business forms, commercial paper, stocks and bonds, insurance policies and investment securities of all kinds will be studied with the aid of sample copies. This is an advanced course and should be preceded by four elective courses in the department including Course 60. Required readings and reports on current commercial and financial literature. Lectures.

## EDUCATION

[UNIVERSITY HALL, Rooms 51 and 54]

*Professor Gordy, Mr. Hamilton.*

### FIRST SEMESTER

51. **ELEMENTARY EDUCATIONAL PSYCHOLOGY.** This course is intended to be helpful to three classes of students: (1) Those who are not preparing to teach, but who wish to make some study of education in order that they may perform their duties as members of society more intelligently; (2) Those intending to teach and who wish to study the relations between Psychology and education; and (3) Those preparing to be superintendents and who wish to get suggestions as to the best method of teaching Psychology to teachers. The text used is Gordy's Psychology. Students will be required to do collateral reading and bring in reports of their work. Four hours a week.
53. **HISTORY OF GREEK EDUCATION.** Students of this course will make a study of the history of the education of the Greeks from the time when life was their only school to the time when Greece became the teacher of the world. The connection between Greek life and Greek education will be sharply emphasized; the defects of Greek ideals of life will be shown as reappearing in Greek ideals and methods of education, and these in turn as exerting an influence on Greek life. This course will be essentially a study of Greek civilization, but with the practical purpose of getting light for the solution of our own problems. It is believed that the course will be especially helpful to those preparing to teach history, and the classics. The texts used are Davidson's *Greek Education*, and Davidson's *Aristotle*. Readings are required of students in Greek history and Plato's *Dialogues*. Four hours a week.

55. **THE HERBARTIAN PEDAGOGY.** The object of this course is three-fold: (1) To ascertain what the Herbartian Pedagogy is; (2) To determine its truth, and (3) To consider carefully its applicability—so far as it is true—to the schools of this country. Special attention will be given to these Herbartian theories that are most widely current in this country. The texts used are Herbart's *Science of Education*, De Garmo's *Herbart* and Lange's *Apperception*. Four hours a week.
59. **CHILD STUDY.** An elementary course in the growth and development of children, giving special attention to the pedagogical aspect of the subject. Though arranged primarily for teachers this course treats of subjects of universal interest such as the child as a social factor, function of play, the child and self-government, the child and the race, etc. Open to all students. Twice a week.
67. **EDUCATIONAL VALUES.** This course seeks to determine the capacity of the various subjects pursued in elementary and secondary courses to contribute to true educational ideals. The work is based on Fouillie's *Education from a National Standpoint*. Twice a week.
69. **A STUDY OF SCIENTIFIC METHOD;** intended especially for those preparing to teach Science. Twice a week.
71. **PEDAGOGICAL RESEARCH.** For teachers and advanced students. Various school problems will be taken up for exhaustive study, thus offering opportunity for an insight into the organization of the school not usually open to undergraduate students. The work will be by topics and largely individual. Special facilities for original investigation will be at the command of students showing themselves competent to do such work. As only a small number of students can be accommodated applications for admission should be made as soon as possible. Twice a week.
73. **MODERN EDUCATIONAL SYSTEMS OF EUROPE.** A brief historical and statistical study of secondary education in Germany, France and England. The work will be based upon such texts as Russel's *German Higher Schools*, Holman's *English National Education*, and will consist of recitations and reports upon original topics. Open to all students. Twice a week.

## SECOND SEMESTER

52. **MODERN EDUCATIONAL THEORIES.** These theories will be studied from three points of view: (1) As the expression of a certain philosophy of life; (2) from the point of view of their consistency; and (3) from that of their truth. The work is based on Quick's *Educational Reformers*. Twice a week.
54. **PLATO'S REPUBLIC.** This course is essentially seminary work for the benefit of those students of Course 53 who wish to make a critical study of Plato's *Philosophy of Education*. Twice a week.
56. **THE KINDERGARTEN.** This course is intended especially for those who are preparing to do kindergarten and primary work, and to be superintendents of schools. Twice a week.
58. **THE PHILOSOPHY OF EDUCATION.** This course aims to make a systematic exposition of the philosophy of education. Four times a week.
60. **EDUCATION IN THE UNITED STATES.** A comparative study of secondary education in the United States and Europe presupposing Course 73. Twice a week.
68. A continuation of 67. Twice a week.
70. A continuation of 69. Twice a week.
72. **PEDAGOGICAL RESEARCH.** Continuation of Course 71. Open to students credited with 59 or 71. Twice a week.

## ELECTRICAL ENGINEERING.

[ELECTRICAL HALL, Room 9 and Laboratory.]

*Associate Professor Caldwell, Mr. Fish*

6. **ELECTRICAL ENGINEERING.** Lectures on direct and alternating circuits, dynamo machinery, transformers, accumulators and applications. Twice a week. (First and Second Terms, third year, Course in Architecture; and fourth year, Courses in Industrial Arts and Manual Training.)
7. **ELECTRICAL ENGINEERING.** Laboratory work on the subjects treated in Course 6, which it accompanies. Twice a week. (First and Second Terms, fourth year, Courses in Industrial Arts, Manual Training, Mining and Mechanical Engineering; Second Term, third year, Course in Architecture; fourth year, Civil Engineering.)
8. **DIRECT CURRENT DYNAMO MACHINERY.** Generators and Motors, their theory, construction and operation. Lectures, recitations and problems. Four times a week. (Second Term, third year, Course in Electrical Engineering.)
9. **ELEMENTARY DYNAMO LABORATORY.** Handling and testing of circuits, generators, motors, accumulators, lamps, etc. Nine actual hours per week. (Third Term, third year, Course in Electrical Engineering.)
10. **ALTERNATING CURRENT CIRCUITS AND MACHINERY.** Generators, transformers, single and polyphase motors, apparatus and systems. Lectures, recitations and problems. Three times per week. (First and Second Terms, fourth year, Course in Electrical Engineering.)
11. **ADVANCED DYNAMO LABORATORY.** Continuation of the work begun in Course 12, together with alternate current apparatus, telephone apparatus, etc. (First and Second Terms, six actual hours. Third Term, with thesis work nine actual hours. Fourth year, Course in Electrical Engineering.)
12. **ELECTRICAL TRANSMISSION AND DISTRIBUTION.** Systems, operation and apparatus. Twice a week. (Second Term, fourth year, Course in Electrical Engineering.)
13. **APPLICATION OF ELECTRICITY.** Brief treatment of the elements of Illumination, Street Railway Work, Telephone, Telegraph, Electro-metallurgy, Mining, etc. The seminary method is used in this course to the extent of each student writing one paper on some assigned subject, and reading the same before the class. Five times per week. (Third Term, fourth year, Course in Electrical Engineering.)
14. **ELECTRICAL DESIGN.** Includes wiring of buildings, Direct and Alternate current generators, transformers, distribution, etc. Eight hours per week in the drawing room. (Second and Third Terms, fourth year, Course in Electrical Engineering.)

## ENGLISH LITERATURE

[UNIVERSITY HALL, ROOM 31.]

*Professor Barrows, Assistant Professor Taylor*

All Courses except 51 and 52 are elective; but no elective is open to one who has not taken, or is not taking 51 or 52. Students, whose major study is in English literature must take 69 and 70, in either the third or fourth year. Biennial courses will alternate as follows: 53 with 61, 54 with 60, 63 with 71, 64 with 72.



## FIRST SEMESTER.

51. **AN INTRODUCTION TO ENGLISH LITERATURE.** Four times a week.  
Required in the Course of Arts, the Latin Course in Philosophy, and the Course preparatory to the study of Law and Journalism.  
Course 51 includes (1) an outline of the history of English literature. For this part of the work Pancoast's "Introduction to English Literature" is covered in three examinations. (2) Lectures on the elements of literary analysis and interpretation. (3) Study of selections characteristic of different authors and of different periods, to secure acquaintance with literary problems, to cultivate perception of literary qualities, and to verify and apply the assertions of the lectures and of the manual. The book first used is Palgrave's "Golden Treasury."
53. **POETRY, FROM SPENCER TO MILTON,** exclusive of the drama. Twice a week. (Omitted in 1899-1900.) Historical and critical lectures; papers and discussions. Required books: "Spenser's Faery Queene" (Kitchin); "Elizabethan Lyrics" (Schilling); "Milton's Poetical Works."
- 55a. **THE ENGLISH BIBLE.** The Pentateuch. Once a week. Given in 1901-'02.
- 55b. **THE ENGLISH BIBLE.** The Histories. Once a week. Given in 1899-1900.
- 55c. **THE ENGLISH BIBLE.** The Gospels. Once a week. Given in 1900-1901.  
The study of the Bible is continued through three years. The old authorized version is the text-book; but students must also have, for correction and comment, the revised version.
57. **SHAKSPERE.** Three times a week. Literary study of Shakspeare's plays, with no more reference to historical and philological matters than is necessary to an understanding of the text. Various problems of dramatic art are discussed in connection with the plays that best illustrate them.
59. **THE MODERN NOVEL.** Three times a week. (Omitted in 1900-1901.) Lectures, reading and reports.
61. **FROM DRYDEN TO JOHNSON.** Twice a week. (Omitted in 1900-1901.) Lectures, reading and reports. Both prose and poetry will be reviewed in this course.
63. **PROSE, FROM COWPER TO THE VICTORIAN PERIOD.** Three times a week. (Omitted in 1899-1900.) Lectures on the history of thought in this period, on the relations of authors to each other and to the times, and on their literary significance. Critical study of selections from Burke, Coleridge, Landor and the essayists.
65. **MASTERPIECES: A STUDY OF LITERARY TYPES.** Three times a week. This with course 66 constitutes one continuous course. The course covers the whole field of English Literature topically. It is designed for graduates, but is open to undergraduates who have taken two elective courses in this department. The study is of literary types, their origin and development, the best examples in English being chosen for basis; the types will include the drama, the epic, the idyll, the lyric, and in prose the novel, the short story and the essay. The whole will be based upon Aristotle's "Poetics" and the theory of ideal literature; and will include lectures, readings and essays.
67. **CHAUCEER.** Twice a week. The Prologue to the Canterbury Tales, and the most important of the tales will be read. The Morris-Skeat edition of the Prologue, and Skeat's edition of Chaucer's Works are required.



69. **LITERARY PROBLEMS.** Twice a week. A series of topical studies. Lectures and illustrative readings drawn from the entire range of our literature; reports and discussions.  
Required in the third or fourth year of students whose major study lies in this department.
71. **VICTORIAN LITERATURE—PROSE.** Three times a week. (Omitted in 1900–1901.) Victorian prose, centering on the essayists,—Ruskin, Newman, Arnold, Pater, Stevenson, Lectures, readings and reports.

## SECOND SEMESTER.

52. **AN INTRODUCTION TO ENGLISH LITERATURE.** Four times a week.  
Required in the Modern Language and English Courses in Philosophy and in the Course in Commerce and Administration. See description of Course 51, of which this is a repetition.
54. **PROSE, FROM SIDNEY TO MILTON.** Twice a week. (Omitted in 1899–1900.) Lectures on the intellectual life, and the political, religious, and social problems of the period as they affected its literature; papers and discussions. Required books: Bacon's "Essays and Advancement of Learning" (Selby); Browne's "Religio Medici" (Camelot Classics); Cowley's "Essays" (Cassel's National Library); Fuller's "Wit and Wisdom" (R. T. S. Library). Sidney, Taylor and others will be investigated in the library.
- 56a. **THE ENGLISH BIBLE.** Course 55a continued. Given 1901–1902.
- 56b. **THE ENGLISH BIBLE.** The Psalms and Prophets. Once a week. Given in 1899–1900.
- 56c. **THE ENGLISH BIBLE.** The Acts and Epistles. Once a week. Given in 1900–1901.  
The study of the Bible is continued through three years. The old authorized version is the text-book; but students must also have, for correction and comment, the revised version.
58. **THE DRAMA—FROM THE MIRACLE PLAYS TO THE CLOSING OF THE THEATRES.** Three times a week. Lectures on the Mysteries, the Moralities, the Inter-ludes, the Rise of the Regular Drama, Shakspeare and his Predecessors, Contemporaries and Successors. Select plays will be read by the class.
60. **THE DRAMA—SINCE THE RESTORATION.** Twice a week. (Omitted 1900–1901.) Lectures, readings and reports.
62. **AMERICAN AUTHORS.** Three times a week. (Omitted 1900–1901.) Lectures, readings and reports.
64. **POETRY—FROM COWPER TO THE VICTORIAN PERIOD.** Three times a week. (Omitted in 1899–1900.) Lectures on the rise of the romantic spirit, on the history of thought in this period, and on the relation of the poets of the times and to current problems. Study of selections from Cowper, Burns, Wordsworth, Shelley and Keats.
66. **MASTERPIECES: A STUDY OF LITERARY TYPES.** Three times a week. Course 66 is a continuation of Course 65 and must be preceded by 65. See description of Course 65.
68. **THE GREAT TRANSLATIONS.** Twice a week. (Omitted in 1899–1900.) This is a graduate course, for the discussion of various problems of universal literature, and the investigation of the indebtedness of English to other literatures. Undergraduates must obtain permission to take this course.
70. **LITERARY PROBLEMS.** Twice a week. A continuation of Course 69, and required of students whose major study lies in this department.
72. **VICTORIAN LITERATURE—POETRY.** Three times a week. (Omitted 1900–1901.)

## ENTOMOLOGY

(See Zoology and Entomology)

## EUROPEAN HISTORY

(See History)

## GENERAL CHEMISTRY

(See Chemistry)

## GEOLOGY

[ORTON HALL, Rooms 1, 5, 4, 7 and 13]

*Professor Orton, Associate Professor Prosser, Associate Professor Bownocker.*

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE.

## FIRST SEMESTER.

53. **PALEONTOLOGY.** Careful training in systematic classification which may be used in the philosophical study of the development of plant and animal life, or as a means of becoming acquainted with the faunas and floras that characterize the various geological formations.  
At first the student devotes some time to conchology, studying recent shells in which the characters used in classification are well preserved, and after this preliminary work, fossils are studied. Fossils afford the most reliable data for identifying and correlating geologic formations, and the critical study of faunas is a field especially adapted to independent research.  
Laboratory, museum and field work. Two to five hours credit.
55. **PETROGRAPHY 1.** Laboratory and Lectures. Optical crystallography, with practical determination of rock-forming minerals, macroscopically and microscopically. Study of the igneous rocks in the hand specimen and thin section. Twice a week. The Sturtz rock collection and Voight Hochgesang thin sections of typical minerals and rocks will be carefully studied. Books of reference:—Mitchel Levy—*Les Minneaux des Roches*; Rosenbusch—*Mikroskopische Physiographie der Petrographisch Wichtigen Mineralien*, 3d ed.; *Mikroskopische Physiographie der Massigen Gesteine*, 2d ed.; Teall's *British Petrography*; Spottiswoode's *Polarization of Light*. Prerequisites; Chemistry, 51 and 52; Metallurgy, 52 (Mineralogy and Crystallography).
59. **FIELD GEOLOGY.** Field and laboratory study of the geological formations readily accessible from Columbus. This course is intended to acquaint the student with the ordinary methods of field investigation, and involves the collection and identification of specimens, the measurement of geologic sections and the preparation of a report describing the region studied.  
Two to five hours credit.
61. **COSMICAL GEOLOGY.** Lithological Geology, Dynamic and Structural Geology, Books of reference used in preparation of the work: Green's Physical Geology, Geike's Text-book of Geology, LeConte's Elements of Geology, Hunt's Chemical Geology, Daubree's Geologic Experimentale. Three times a week.

63. **PHYSIOGRAPHY.** Study of the features of the earth's surface with special reference to North America; the agencies producing these features and geographical changes now in progress. Recitations, lectures, map-work, field excursions. Books used in preparation of work: Standard Works on Physical Geography; Russel's Rivers of North America; Lakes of North America; and Glaciers of North America; Shaler's Aspect of the Earth; Wright's The Ice Age of North America; The National Geographic Magazine; Maps of the Mississippi River Commission, etc. Twice a week.

#### SECOND SEMESTER.

54. Continuation of Course 53. These two Courses may be continued through a second year.
56. Continuation of Course 55. Twice a week.
58. **GEOGRAPHIC GEOLOGY.** The origin, development and destruction of topographic forms. Rivers, lakes, oceans, ice, and winds as agents modifying the surface of the earth. The great ice age in North America. [Primarily for teachers.]
- Books of reference: Journal of Geology; American Geologist; The Great Ice Age; (Geike's) The Ice Age in North America; (Wright) The Reports of the United States Geological Survey; The Maps of the Mississippi River Commission, etc. Three hours per week. Lectures, recitations, map work. Third term.
60. **AREAL GEOLOGY.** Instruction in the methods of preparing geological maps and reports. The student compiles from a geological report a map with sections showing geologic structure, and later traces the outcrops and prepares a geological map of some region. Two to five hours credit.
62. **HISTORICAL GEOLOGY.** A general course in paleontological and stratigraphical geology with excursions and laboratory study of the Ohio Geological Reports and characteristic fossils. The development of organisms and the classification and distribution of the geological formations are considered. Continuation of Course 61. Lectures and recitations three hours.
64. Continuation of Course 63. Twice a week.

#### COLLEGES OF AGRICULTURE, ENGINEERING AND PHARMACY.

2. **GENERAL GEOLOGY.** Structural, historical and dynamical geology. Three hours lectures and recitations and four laboratory and field work. In the laboratory. Dana's Manual of Geology, the Ohio Geological Reports and characteristic fossils will be studied. In the field, specimens will be collected, sections measured, formations identified and the student will be given an idea of the methods of work pursued by a field geologist. Credit five hours. First term.
5. **ECONOMIC GEOLOGY.** The common minerals and rocks composing the earth's crust, their alteration and decomposition. Soils, their origin and classification; the soils of the United States and especially those of Ohio. Fuels: Coal, oil and gas. Building stones, limes and cements. Iron and the most useful metals. Three hours. Second term. Lectures and laboratory work.
1. **PHYSIOGRAPHY.** The probable origin of the earth and its relation to other heavenly bodies. The features of the earth's surface and the agencies producing these. The atmosphere, climate, etc. Oceans, rivers and lakes. Recitations, lectures and map work. Five hours. Third term.



5. **GENERAL GEOLOGY.** Structural, Historical and Dynamical Geology. Three hours lectures and recitations and two hours laboratory and field work. In the laboratory the Ohio Geological Reports and characteristic fossils will be studied. In the field, sections will be measured, formations identified, specimens collected and the student given an idea of the method of work pursued by a field geologist. (Required in the first and second term of fourth year in the Long Course.)
6. **ECONOMIC GEOLOGY.** Lectures, Economic materials of stratified rocks, clay, limes, cements, coals, iron ores, phosphates, petroleum, etc. Economic materials derived from veins and igneous rocks, gold, silver, copper, mercury. Gems. Books of reference used by students in preparation of their work: Publications of U. S. Geological Survey, State Geological Surveys, Phillips' Ore Mining. Three times a week. (Required in second term of fourth year in Long Course.)
1. **PHYSIOGRAPHY.** Recitations, lectures, map work. The probable origin of the earth and its relations to other heavenly bodies. The features of the earth's surface and the agencies producing these. The atmosphere, climate, etc. Oceans, rivers and lakes. Five hours. Third term, first year. Short Courses in Mining, Clay-working; and second year, Short Course in Industrial Arts.
4. **ELEMENTARY GEOLOGY.** Recitations, lectures, laboratory work. Lithological, dynamical, structural and historical geology. Five hours. (Second term, second year, Short Course in Mining.)
5. **GENERAL GEOLOGY.** Structural, historical and dynamical geology. Three hours lectures and recitations and four hours laboratory and field work. In the laboratory Dana's Manual of Geology, the Ohio Geological Reports and characteristic fossils will be studied. In the field specimens will be collected, sections measured, formations identified and the student given an idea of the methods of work pursued by a field geologist. Credit five hours. (First term, fourth year, Course in Architecture, Ceramics, Civil and Mining Engineering; and second year, Short Course in Clay-working.)
6. **ECONOMIC GEOLOGY.** Lectures and assigned reading. Economic materials of stratified rocks, clays, limes, cements, coals, iron ores, phosphates, petroleum and gas. Economic materials derived from unstratified rocks—gold, silver, copper, mercury, etc. Three hours. (Second Term, fourth year, Courses in Architecture, Ceramics, Civil and Mining Engineering; and second year, Short Course in Clay-working.)
7. **PETROGRAPHY.** Lectures and laboratory work. The ingenious, sedimentary, and metamorphic rocks,—their origin and classification. The volcanic rocks of the western United States,—their composition, structure and alteration products. The object of this course is to give the student a practical acquaintance with rocks. Two hours. (Second Term, fourth year, Course in Mining Engineering.)

## GERMAN LANGUAGES AND LITERATURES

[UNIVERSITY HALL, Rooms 32 and 33]

*Professor Eggers, Associate Professor Mesloh*

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

### FIRST SEMESTER

51. **ELEMENTARY GERMAN.** Four times a week.
53. **SCIENCE READING.** Twice a week.



55. **INTERMEDIATE GERMAN.** Lectures upon outline of German Literature. Reading of selections. Four times a week.
57. **THE GERMAN DRAMA.** Lectures and reading of Selections. Three times a week.
59. **FAUST I.** Twice a week. (Can be taken only by those who propose to take 60.)
61. **MIDDLE HIGH GERMAN.** Mediæval Epics. Twice a week.
63. **DEUTSCHER AUFSATZ.** Original compositions in German. Once a week.
65. **COLLOQUIAL EXERCISES.** For advanced students. Twice a week.
67. **GOTHIC.** Wright's *Primer*. The relation between Gothic and allied languages will be considered. Twice a week.
59. **OLD NORSE.** Lectures on Grammar and Reading of Sagas.  
The last two courses will alternate.
71. **SANSKRIT.** Perry's *Primer*. Lectures introductory to the study of Indo-Germanic philology.
73. **MODERN GERMAN DRAMA.** Critical study of contemporary dramatists, Hauptmann, Sudermann and others, with references also to the dramas of Ibsen and other dramatists of Germanic countries. Lectures and reading. Composition. After 1901 this course will alternate with 57. Three hours a week.
75. **PHONETICS.** Lectures. The course is intended to give the student a knowledge of the various sounds of language and of the relations between them. One hour a week.

#### SECOND SEMESTER

52. Continuation of Course 51. Four times a week.
54. Continuation of Course 53. Twice a week. Courses 53 and 54 must have been preceded by Courses 51 and 52.
56. **GERMAN LITERATURE.** Lectures and reading of Selections. Four times a week. Course 55 must have been preceded by Courses 51 and 52.
58. **THE GERMAN PROSE.** Lectures and reading of Selections. Three times a week. 57 and 58 must have been preceded by 51, 52, 55 and 56.
60. **FAUST II.** Twice a week.
62. **MEDIÆVAL LYRICS.** Twice a week.
64. **DEUTSCHE KULTURGESCHICHTE.** Once a week.  
Courses 59, 60, 61, 62, 63 and 64 can be taken only with the approval of Professor Eggers; and must have been preceded by Courses 51, 52, 55 and 56, or their equivalents.
66. **COLLOQUIAL EXERCISES.** For advanced students. Twice a week.
68. **OLD HIGH GERMAN.** Lectures on Grammar and Literature. Reading of Selections. Twice a week.
70. **COMPARATIVE GRAMMAR.** Lectures. Twice a week.  
The last two courses will alternate.
72. Continuation of Course 71.
74. **MODERN GERMAN PROSE.** Lectures and reading. The great contemporary writers of prose in Germany will be discussed. Some of their critical and philosophical works will be read. References will be made to the great prosaists of other Germanic countries. This course will alternate after 1901 with 58. Three hours a week.

## COLLEGE OF AGRICULTURE, ENGINEERING AND PHARMACY

1. **ELEMENTARY.** Four times a week, through the year.
2. **SCIENCE READING.** Twice a week, through the year.
4. **GERMAN LITERATURE.** Four times a week, through the year.
5. **SCIENCE READING.** Four times a week. Open to those who have completed Course 1 or its equivalent. Required of all students who offer German as their entrance language.

## GREEK LANGUAGE AND LITERATURE

[UNIVERSITY HALL, Room 37]

*Professor Smith, Associate Professor Hodgman*

## COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

**ELEMENTARY GREEK.** White's *First Greek Book* and one or two books of Xenophon's *Anabasis*. This course is designed to meet, partially, the wants of those who are deficient in the Greek required for admission. It cannot receive University credit. Five times a week, through the year.

## FIRST SEMESTER

51. **XENOPHON'S HELLENICA**, Books I, II (Manatt). Greek Prose Composition. Herodotus, Book VII. Four times a week.
53. **LYSIAS**, Select Orations (Morgan.) Attic Antiquities. Homer's *Iliad* (Seymour). Four times a week.
59. **LECTURES ON HISTORY OF ANCIENT ART.** Twice a week.  
(Given biennially. Not offered in 1900-1901.)
61. **THE ATTIC DRAMA.** Lectures, collateral readings and quiz. Twice a week.
63. **LECTURES ON THE HISTORY OF MEDIÆVAL AND MODERN ART.** Twice a week.  
(Given biennially. Not offered in 1901-1902.)
65. **LYRIC POETRY.** Selections from the Greek Lyric Poets. Twice a week.

## SECOND SEMESTER

52. **HERODOTUS** (continued). Myers's History of Greece. Homer's *Odyssey* (Perrin). Four times a week.
54. **HOMER'S ILIAD** (continued). Plato's *Apology of Socrates*, *Crito*, and selections from *Phaedo*. Four times a week.
60. **LECTURES ON HISTORY OF ANCIENT ART.** Continuation of Course 59. Twice a week.  
(Given biennially. Not offered in 1900-1901.)
62. **THE ATTIC DRAMA.** Continuation of Course 61. Rapid reading of two or three plays. Twice a week.
64. **LECTURES ON MEDIÆVAL AND MODERN ART.** Continuation of Course 63, Twice a week.  
(Given biennially. Not offered in 1901-1902.)
68. **GREEK PRIVATE LIFE.** Lectures, illustrated by photographs and lantern-slides. Twice a week.

## CLASSICAL PHILOLOGY

Courses 69-70. **HISTORICAL GRAMMAR.** These courses include lectures upon such topics as: The Indo-European family of languages; alphabets and pronunciation of Greek and Latin; accent and its effects as seen in vowel weakening, syncopation, etc.; vowel graduation; inflection of noun and verb; Grimm's Law and the associated laws; the passage of Latin into French and thence into English, etc. The courses include, also, the study of selected inscriptions, of a portion of Quintilian, Book I, and assigned reading in such manuals as Giles's Comparative Philology, and Thompson's Palæography. Twice a week through two semesters.  
(Given biennially. Not offered in 1901-1902.)

## HISTORY

## AMERICAN HISTORY

[UNIVERSITY HALL, Rooms 27 and 18]

*Professor Knight, Dr. J. B. Sanborn*

## COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

Course 55 (or 56) must precede all other courses in American History. All students intending to take advanced courses in American History should take English History (European History 153 and 154, Department of European History) as early as possible in their course.

## FIRST SEMESTER

55. **POLITICAL HISTORY OF THE UNITED STATES.** Lectures, text-books, prescribed readings and topical reports. Hart's Formation of the Union; Wilson's Division and Reunion. Four times a week. This course is repeated in the Second Semester (as Course 56). Of students who are required to take this subject, those whose names begin with the letters from A to K will take it in the first semester; others will take it in the second semester (as Course 56). Two sections.
61. Seminary for Research Work in American History and Political Science. Two hours a week (at one meeting).  
In 1900-1901 all fourth year students, who elect their Major Study in the departments of American History and Political Science must take this course. Open, as elective, to other students, graduate and advanced undergraduate, on permission of the instructor.
63. **AMERICAN COLONIAL HISTORY.** The political and social development of the American Colonies, the growth of colonial self-government and of the idea of union. Lectures, assigned readings and special reports. Three times a week.  
(Given biennially. Not offered in 1900-1901.)
65. **CONSTITUTIONAL AND POLITICAL HISTORY OF THE UNITED STATES. 1850-1876.** Secessions, Civil War and Reconstruction; a study of the causes and the effects of the downfall of slavery. Lectures and assigned readings. Three times a week.  
Given biennially. Offered in 1900-1901.)

71. **HISTORICAL MATERIAL AND ITS USE.** Lectures on elementary historical bibliography and the use of American historical documents, with practical exercises. Especially designed for students intending to do advanced work in American history and political institutions. Once a week.  
All students electing their Major Study in the department of American History and Political Science are expected to take this course in their third year. Open as elective to others on permission of the head of the department.
73. **TERRITORIAL DEVELOPMENT OF THE UNITED STATES, 1789-1850.** Growth of the United States, the acquisition and settlement of new territories, and the effect of those territories on the life of the nation. Lectures and assigned readings. Twice a week.
56. **POLITICAL HISTORY OF THE UNITED STATES.** Lectures, text-books, prescribed readings and topical reports. Hart's *Formation of the Union*; Wilson's *Division and Reunion*. Four times a week. (This is a repetition of Course 55 and will be taken in the second semester by those students (of whom it is required) whose names begin with letters from L to Z.) Two sections.
62. **SEMINARY FOR RESEARCH WORK IN AMERICAN HISTORY AND POLITICAL SCIENCE.**  
Two hours a week (at one meeting).  
This is a continuation of Course 61, and is open to those only who have had Course 61. In 1900-1901 all fourth year students electing their Major Study in the department of American History and Political Science must take this course. Open, as elective, to other students, graduate and advanced undergraduates, on permission of the instructor.
64. **CONSTITUTIONAL AND POLITICAL HISTORY OF THE UNITED STATES.** The Formative Period, 1776-1815. An advanced course covering the organization and establishment of the United States as a nation. Lectures, assigned readings and special investigations. Three times a week.  
(Given biennially. Not offered in 1900-1901.)
66. **AMERICAN DIPLOMATIC HISTORY.** History of the foreign relations, policy and treaties of the United States. Lectures and special investigations. Three times a week.  
(Given biennially. Offered in 1900-1901.)
72. **TOPICAL RESEARCH IN AMERICAN HISTORY.** The preparation of special topics on the basis of the work of Course 71. Some special period of American History will be taken up each year. Once a week.  
Open to those who have had Course 71. All students electing their major study in the department of American History and Political Science are expected to take this course in their third year.
74. **TERRITORIAL DEVELOPMENT OF THE UNITED STATES, 1850-1900.** A continuation of Course 73. Particular attention will be paid to the country west of the Mississippi, and to the growth of American interests in the Pacific. Lectures and assigned readings. Twice a week.

## COLLEGE OF ENGINEERING

56. **POLITICAL HISTORY OF THE UNITED STATES.** Lectures, text-books and prescribed reading. Hart's *Formation of the Union*; Wilson's *Division and Reunion*. Two sections. Four times a week. (Last half Second Term and Third Term, third year, Courses in Industrial Arts and Manual Training.)



## COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE

5. **POLITICAL HISTORY OF THE UNITED STATES.** Lectures, text-books and prescribed readings. Hart's *Formation of the Union*; Wilson's *Division and Reunion*. Four times a week during the first term and the first half of the second term. Two sections. The aim of this course is to give the student such knowledge of the political history of the United States as shall make for intelligent citizenship and a clearer understanding of current political conditions.

## EUROPEAN HISTORY

[UNIVERSITY HALL, Rooms 7, 17, 36]

*Associate Professor Siebert*

Courses 151 and 152, in the order named, must precede all other courses in European History, except Courses 153, 154 and 157.

## FIRST SEMESTER

151. **GENERAL HISTORY OF EUROPE TO THE CLOSE OF THE MIDDLE AGES.** Lectures, text-book and collateral readings. Adams, *Civilization during the Middle Ages*. Three times a week. Two sections.
153. **POLITICAL AND CONSTITUTIONAL HISTORY OF ENGLAND TO THE ACCESSION OF THE STUARTS.** Lectures, text-book and assigned readings. Gardiner's *Student's History of England*. Three times a week.
155. **HISTORY OF EUROPE FROM 1789 TO 1815.** The French Revolution. Lectures, recitations and collateral reading. Stephen's *Europe, 1718-1815*. Three times a week.
157. **ROMAN HISTORY AND INSTITUTIONS.** Lectures and text-book. Pelham, *History of Rome*. Twice a week.
159. **HISTORY OF EUROPEAN COLONIES.** A study of colonial development of Portugal, Spain, England, the Netherlands, France and Germany during the fifteenth, sixteenth and seventeenth centuries. Lectures, collateral readings and special reports. Twice a week. Omitted in 1900-1901.
161. **HISTORY OF FRANCE TO THE MIDDLE OF THE EIGHTEENTH CENTURY.** Lectures, assigned readings and special reports. Given biennially. Omitted in 1900-1901.

## SECOND SEMESTER

152. **GENERAL HISTORY OF EUROPE FROM THE MIDDLE AGES TO THE PRESENT TIME.** Lectures, text-book and collateral reading. Schwill's *History of Modern Europe*. Three times a week. Two sections.
154. **POLITICAL AND CONSTITUTIONAL HISTORY OF ENGLAND FROM THE ACCESSION OF THE STUARTS TO THE PRESENT TIME.** Lectures, text-book and assigned readings. Gardiner's *Student's History of England*. Three times a week.
156. **HISTORY OF EUROPE SINCE 1815.** Lectures, text-book and assigned readings. Fyffe's *Modern Europe*. Three times a week.
158. **HISTORY OF THE PERIOD OF THE PROTESTANT REFORMATION.** Lectures and text-book. Hauser's *Era of the Reformation*. Twice a week.

160. **HISTORY OF EUROPEAN COLONIES.** History of colonization by the important States of Europe during the eighteenth and nineteenth centuries. Lectures, collateral reading and special reports. Twice a week. Omitted in 1900-1901.
162. **DOCUMENTARY AND BIBLIOGRAPHICAL STUDIES IN EUROPEAN HISTORY.** Lectures, readings and criticism of documents, and investigations. Given biennially. Omitted in 1900-1901.

## HORTICULTURE

[HORTICULTURAL HALL]

*Professor Lazenby, Mr. Price.*

1. **ELEMENTS OF HORTICULTURE.** Lectures, text-book and laboratory work in garden, orchard and green-house. A study of the principles of plant growth and culture, preparation of soil, drainage and irrigation, weeds and insects. Four times a week. First term.
- a. **GREENHOUSE, CONSTRUCTION AND MANAGEMENT.** A study of the different types of plant houses, including methods of heating, ventilating and watering. The vegetable forcing house, and the crops grown therein. Lectures, recitations and laboratory work in greenhouse. Four times a week. Second term.
- b. **PLANT PROPAGATION.** The theory and practice of multiplying plants by seeds, cuttings, divisions, layers, budding and grafting. A study of special garden crops, including fertilizers, tools and implements. Practice in transplanting, pollinating and the use of insecticides and fungicides. Lectures and laboratory work in garden and orchard. Four times a week. Third term.
5. **VARIETIES OF FRUIT.** A study of the history, characteristics, adaptation and general qualities of orchard and garden fruits, including their commercial and food value. Practice in judging and scoring apples, pears, peaches, grapes, citrous and nut fruits. Lectures, recitations and laboratory exercises. Four times a week. First term.
6. **PRINCIPLES OF FRUIT CULTURE.** A study of the location, tillage and fertilizing of fruit lands; the selection of varieties, laying out and planting of fruit grounds; the care of fruit plantations, including diseases, insects and fungi; spraying and the use of insecticides and fungicides; harvesting, preserving and marketing fruit. Lectures and recitations four times a week. Second term.
7. **SMALL FRUIT CULTURE.** A study of the varieties and methods of culture of the small or bush fruits. Practice in cross-pollinating, judging and scoring of small fruits; the relation of bees and birds to horticulture; insect enemies; fungus diseases and the theory and practice of spraying. Lectures, recitations and laboratory work in garden and orchard. Four times a week. First term.
8. **ELEMENTS OF FLORICULTURE.** A study of the origin, history, classification, general characteristics and development of ornamental plants. Lectures and laboratory work. Twice a week. First term.
9. **COMMERCIAL FLORICULTURE.** A study of the propagation and culture of ornamental plants, including the general management of plant houses, the marketing of cut flowers and bedding plants. Lectures, recitations and laboratory work. Twice a week. Second term.

10. **AMATEUR OR HOME FLORICULTURE.** Including the study of window gardening and general management of house plants; the out-door flower garden and treatment of flower beds and borders. Lectures, recitations and laboratory work. Twice a week. Third term.
11. **ARBORICULTURE.** A study of native and introduced trees and shrubs; their use for timber, ornament, shade, shelter and hedges; methods of propagation and culture. Lectures and field work. Twice a week. First term.
12. **FORESTRY AND SYLVICULTURE.** A study of the influence of forests upon soils, crops and climate; forestry in Europe; value of trees for timber; establishment and management of small plantations of forest trees; how to improve and extend existing woodland. Lectures and laboratory work. Twice a week. Second term.
13. **LANDSCAPE GARDENING.** A study of the art of producing picture-like or landscape effect; the making of lawns, walks and drives, and the correct planting of trees, shrubs and flowers for the external adornment of home and public grounds. Lectures and practice. Twice a week. Third term.

## INDUSTRIAL ARTS AND SHOPWORK

[HAYES HALL, Rooms 9, 12, 17, 18, 5 and 6]

### INDUSTRIAL ARTS

*Professor Sanborn, Mr. Knight, Mr. Renck, Mr. Crowe, Mr. McIntire*

1. **TOOLS, MACHINES.** Lectures and recitations on hand and machine tools and the principles of mechanism and mechanics underlying their design, construction and operation. Three times a week.
2. **DESIGNING.** Problems in drawing and design to accompany Course 1. Three drawing periods a week.
3. **SHOP EQUIPMENT, APPLIANCES AND MANAGEMENT.** A continuation of Course 1. Lectures and recitations on the strength and durability of the materials used in construction; shop and factory buildings and their construction; power, power transmission and prime movers; automatic machines and other special devices for turning out cheap and accurate work; methods of compensation and shop accounts and management. Three times a week.
4. **ADVANCED DESIGNING.** Problems in the design of buildings and the arrangement of machinery; line-shafting, etc., for manufacture plants; to accompany Course 3. Three drawing periods a week.
5. **WORKSHOPS AND APPLIANCES.** Lectures and problems on the construction of shop buildings and the arrangement of machinery; power required and the means of transmission: friction in line-shafting and the efficiency of machinery: automatic machines and special shop appliances. Three times a week.
6. **MACHINE DESIGN.** Application of the principles of mechanics and strength of materials to the problems of machine designing. Five times (ten hours' practice) a week.

### SHOPWORK

1. **CARPENTRY AND PATTERN MAKING.** Exercises and practice in carpentry, wood-turning and pattern making, including sawing, planing, mortising, splicing, framing and other work involving the use of the ordinary carpenter tools; center and chuck turning; the making of finished patterns; and enough elementary moulding to illustrate draft, parting, cores, etc.



2. **FORGING.** Exercises and practice in iron and steel forging, including such operations as drawing, bending, forming, upsetting, welding and the making and tempering of punches, drills, chisels, lathe tools and springs.
3. **FOUNDRY WORK.** Exercises and practice in tempering sand and preparing moulds of machine parts in the sand, core-making, melting iron and brass, and the pouring of castings.
4. **CHIPPING AND FILING.** Exercises and practice in vise work, including chipping in cast and wrought iron; surface filing, squaring, fitting, finishing, and the scraping of surface plates.
7. **CARPENTRY AND PATTERN MAKING.** Similar to Shopwork 1.
8. **CARPENTRY: CABINET WORK.** Exercises and practice in cabinet making including panelling, mitre and dovetail joints, etc.; use of power tools.
9. **ADVANCED PATTERN MAKING.** Continuation of pattern work of Shopwork 7.
11. **FORGING.** Similar to Shopwork 2.
12. **ADVANCED FORGING.** Tool making, tempering of taps, dies, cutters, etc.; annealing; case hardening; ornamental iron work, etc.; visits to shops.
13. **MACHINE WORK.** Exercises and practice in hand-turning in iron and brass on speed lathes; and straight and taper turning, boring, fitting, chucking, thread-cutting, etc., on engine lathes.
14. **MACHINE WORK.** Exercises and practice on the lathe, planer, shaper, drill press and milling machine, with use of small tools as drills, taps, dies, reamers, counterbores, etc.; construction of parts of actual machines.
15. **ADVANCED MACHINE WORK.** Exercises and practice on turret lathe, universal, surface and tool grinding machines, gear cutting, etc.
16. **ADVANCED MACHINE WORK.** The construction and use of jigs and templates; the accurate laying out of work; the duplication of parts, the production of work rapidly and economically, etc.
17. **ADVANCED MACHINE WORK.** The making and use of special tools and fixtures, standard plugs and collars, standard caliper and limit gauges; error limits in modern machine construction; methods of testing the accuracy of machine tools; etc.

**SHOPWORK REQUIRED**

Number	Credit	Year	Term	Courses in	Number	Credit	Year	Term	Courses in
3	2	2	1	M. E.: I. A. (short).	11	2	2	2	E. M.
	3	2	1	I. A.: Man. Tr.		3	2	2	Chem.: I. A.: Man. Tr.
4	2	2	1	E. E.		3	1	3	Clay-w'k (short): I. A. (short)
	3	3	1	I. A.: Man. Tr.		3	2	3	Mining (short).
	3	2	1	I. A. (short).		3	3	3	Cer.
	3	2	2	M. E.	12	3	2	3	I. A.: Man. Tr.
	2	1	3	Clay-work (short).	13	3	2	2	E. E.
	2	2	3	E. M.		3	3	2	I. A.: Man. Tr.
	3	4	1	Cer.		5	2	2	I. A. (short).
7	3	1	1	I. A. (short).		3	2	3	M. E.
	3	2	1	Chem.: I. A.: Man. Tr.	14	3	3	1	M. E.: E. E.
	2	2	1	E. M.		3	3	3	I. A.: Man. Tr.
	4	1	3	E. E.: M. E.	15	3	4	1	I. A.: Man. Tr.
8	5	2	3	I. A.: Man. Tr.		4	3	2	M. E.
9	3	2	2	I. A.: Man. Tr.		5	2	3	I. A. (short).
	3	1	2	I. A. (short).	16	3	4	2	I. A.: Man. Tr.
11	2	2	1	E. E.	17	3	4	3	I. A.
	3	2	1	M. E.					



## LATIN

[UNIVERSITY HALL, Rooms 29, 28 and 39]

*Professor Derby, Associate Professor Hodgman, Assistant Professor Elden*

## COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

Courses 51, 52, 53, and 54 in the order named must precede the Elective Courses  
55, 56, 57, 58, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75,  
76, 77, 78.

## FIRST SEMESTER

51. LIVY—BOOKS XXI AND XXII; TERENCE—*Pharmio*. Four times a week.
53. HORACE — *Odes*; CATULLUS — *Selections*; TACITUS — *Agricola*. Four times a week.
55. ROMAN HISTORIANS—TACITUS — *Historiæ*; SUETONIUS. Three times a week.
57. ROMAN PHILOSOPHY. Three times a week. (Not offered in 1900–1901.)
59. PHARMACEUTICAL LATIN. Five times a week.
61. LINGUISTICS AND INSCRIPTIONS. Two times a week. (Not offered in 1900–1901.)
63. TEACHERS' COURSE. Two times a week.
65. ROMAN RHETORIC AND ORATORY. Three times a week.
67. GREEK AND ROMAN ANTIQUITIES. Lectures, illustrated. Two times a week.
69. CICERO'S PHILOSOPHY. *Tusculanae Disputationes, De Finibus*. Three times a week.
71. LATIN LITERATURE. Once a week.
73. ROMAN POLITICAL AND LEGAL ANTIQUITIES. Once a week.
75. LATIN WRITING. Twice a week.
77. LATIN PROSEMINARY. Three hours a week.

## SECOND SEMESTER

52. EARLY LATIN COMEDY — PLAUTUS — *Mostellaria*; CICERO — *Selected Letters*. Four times a week.
54. PLINY'S *Letters*; TIBULLUS, PROPERTIUS, OVID. Four times a week.
56. ROMAN SATIRE. Three times a week.
58. JUVENAL. MARTIAL. Three times a week.
60. PHARMACEUTICAL LATIN — Continuation of Course 59. Five times a week.
62. Continuation of Course 61. Two times a week.
64. Continuation of Course 63. Two times a week.
66. LATER LATIN WRITERS. Three times a week.
68. GREEK AND ROMAN ANTIQUITIES. Lectures, illustrated. Two times a week.
70. SENECA, *Selections*; PLAUTUS, two plays. Three times a week.
72. Continuation of Course 71. Once a week.
74. Continuation of Course 73. Once a week.
76. Continuation of Course 75. Twice a week.
78. Continuation of Course 77. Three hours a week.

## COLLEGE OF PHARMACY

1. **PHARMACEUTICAL.** Five times a week. First, second and third terms.

## LAW

[UNIVERSITY HALL]

## FIRST YEAR

## FIRST SEMESTER

Elementary Law (Robinson, Walker and Blackstone).

## SECOND SEMESTER

Agency (Mechem); Contracts (Bishop); Criminal Law (Hawley); Sales (Tiedeman); Torts (Cooley).

## SECOND YEAR

## FIRST SEMESTER

Bailments (Hale); Commercial Law (Tiedeman); Evidence (Underhill or Greenleaf); Pleading (Phillips).

## SECOND SEMESTER

Construction of Contracts (Jones); Partnership (Parsons); Real Property (Tiedeman); Wills (Schouler).

## THIRD YEAR

## FIRST SEMESTER

Constitutional Law (Black); Private Corporations (Taylor); Municipal Corporations (Tiedeman); Equity Jurisprudence (Fetter).

## SECOND SEMESTER

Ethics (Sharswood); Insurance (Richards); Negligence of Municipal Corporations (Jones); Suretyship (Baylies.)

## MATHEMATICS

[UNIVERSITY HALL, Rooms 39, 41, 43 and 45]

*Professor Bohannon, Associate Professor McCoard, Assistant Professor Arnold, Assistant Professor Swartzel, Mr. Rasor, Miss Ball*

## A. TERM COURSES

1. **ELEMENTARY ALGEBRA.** *Venable.* Five times a week. First term (Short Course in Agriculture.)
3. **PLANE GEOMETRY.** *Venable.* Five times a week. First or second terms.
- 3a. **PLANE GEOMETRY.** *Venable.* Five times a week. Second term. (Short Courses in Agriculture and Clay-working.)
13. **SOLID GEOMETRY.** *Venable.* Five times a week. Second term.
14. **PLANE TRIGONOMETRY.** *Loney.* Five times a week. First or third terms.

15. **ANALYTICAL AND SPHERICAL TRIGONOMETRY.** *Loney*, with notes on Spherical Trigonometry. Twice a week. Second term.
16. **COLLEGE ALGEBRA.** *Taylor*. Three times a week. Second term.
17. **PLANE ANALYTICS.** *Loney*. Five times a week. Third term.
18. **ANALYTICS AND DIFFERENTIAL CALCULUS.** *Loney, Venable, Edwards*. Five times a week. First term.
19. **DIFFERENTIAL CALCULUS.** *Edwards*. Five times a week. Second term.
20. **INTEGRAL CALCULUS.** *Edwards*. Five times a week. Third term.
11. **DIFFERENTIAL EQUATIONS.** *Edwards*. Once a week. First term.
8. **LEAST SQUARES.** *Merriman*. Twice a week. First term.

## B. SEMESTER COURSES

## FIRST SEMESTER

55. **PLANE TRIGONOMETRY** (*Loney*) and 57, **ALGEBRA**, (*Taylor*). Five times a week.
59. **ANALYTICS** (*Loney, Venable*) and 61, **DIFFERENTIAL CALCULUS** (*Edwards*). Five times a week.
63. **ADVANCED MATHEMATICS.** Topics will be changed from year to year to meet the wishes of the students. Selections may be made from the following courses: (a) Advanced Calculus (*Picard Houel*); (b) Differential Equations (*Johnson, Murray, Forsythe, Craig*); (c) Higher Plane Curves (*Salmon*); (d) Advanced Analytical Geometry (*Casey, Salmon*); (e) Analytical Geometry of Three Dimensions (*Chas. Smith, Frost, Salmon*); (f) Theory of Equations (*Burnside and Panton*); (g) Modern Higher Algebra (*Chrystal Salmon, Serret, Cole's Netto*); (h) Modern Geometry (*Cremona, Reye, Steiner, Von Staudt, Chasles*); (i) Determinants (*Muir*); (j) Elliptic Functions (*Weber, Halphen, Durege, Hermite, Greenhill, Briot and Bouquet*); (k) General Theory of Functions (*Forsythe, Harkness and Morley, Tannery, Weierstrass, Durege, Thoame, Biermann*); (l) Potential Functions (*Clausius, Riemann, Dirichlet, Peirce*); (m) Mathematical Theory of Electricity (*Mascart and Joubert*); (n) Higher Geodesy (*Clarke, Helmert, Jordan*); (o) Spherical Harmonics (*Byerly, Ferrers, Heine*); (p) Mathematical Optics; (q) History of Mathematics. Credit, one to ten hours.
65. **PROBLEMS ON ALL PAST WORK.** Once a week.
67. **ALGEBRA, ANALYTICS, CALCULUS.** Three times a week. Taylor's College Algebra.

## SECOND SEMESTER

56. **ALGEBRA** (*Taylor*), and 58, **PLANE ANALYTICS** (*Loney*). Five times a week.
60. **CALCULUS** and 62, **DIFFERENTIAL EQUATIONS** (*Edwards*). Five times a week.
64. Continuation of Course 63. Credit, one to ten hours.
66. Continuation of Course 65. Once a week.
68. **TRIGONOMETRY, ANALYTICS, CALCULUS.** Three times a week. Lyman and Goddard's Trigonometry.

## MECHANICAL ENGINEERING

[HAYES HALL, Room 12; MECHANICAL HALL, Second Floor]

*Professor Magruder, Associate Professor Hitchcock, Mr. Hale, Mr. Grate*

3. **MECHANISM.** Lectures and recitations on the principles of mechanism and mechanical movements. Five times a week. (Second Term, third year, Mechanical and Electrical Engineering Courses.)  
The accurate laying out of movements, embodying the principles of mechanism. Twice a week. (Third Term, third year, Course in Mechanical Engineering.)
6. **ANALYTICAL MECHANICS.** Five times a week. (First and Second Terms, third year, Courses in Architecture, Ceramics, and Civil, Electrical, Mechanical and Mining Engineering.)
7. **STRENGTH OF MATERIALS.** Recitations and lectures on the elastic and ultimate resistance of the materials of engineering to stress and their use in structures and machines. Lectures on elementary hydraulics and the flow of water through orifices and pipes over weirs, and in streams, and on measuring the same. Five times a week. (Third Term, third year, same as 6.)
12. **EXPERIMENTAL ENGINEERING LABORATORY.** Twice a week. (First Term, third year, Course in Mechanical Engineering.)
14. The same. Four times a week. (Second Term, fourth year, Course in Mechanical Engineering.)
15. The same. Three times a week. (Third Term, fourth year, Course in Mechanical Engineering.)
17. The same. Three times a week. (Second Term, fourth year, Course in Civil Engineering.)
18. **MACHINE DESIGN.** Recitations on Unwin's Machine Design, with lectures on American Practice. Five times a week. (First and Second Terms, fourth year, Course in Mechanical Engineering.)
19. **MACHINE DESIGN.** Practical applications of the principles of machine design. Five drawing periods a week. (Third Term, fourth year, Course in Mechanical Engineering.)
21. **THESIS WORK.** Five times a week. (Third Term, fourth year, Course in Mechanical Engineering.)
22. **TIMBER AND MASONRY.** Lectures on the construction of foundations and structures in timber and masonry. Five times a week. (The last three-fifths of Second Term, third year, Courses in Mechanical Engineering and Industrial Arts.)
23. **MATERIALS OF CONSTRUCTION.** Lectures on the materials used in architecture and building construction, and laboratory exercises on their properties. Four times a week. (First Term, fourth year, Course in Architecture.)
24. **EXPERIMENTAL ENGINEERING LABORATORY.** Three times a week. (First and Second Terms. Elective to third and fourth year engineers.)
35. The same. Five times a week. (Third Term, fourth year, Courses in Civil and Mining Engineering.)
27. The same. Five times a week. (First Term, fourth year, Course in Mechanical Engineering.)



28. The same. Twice a week. (Third Term, third year, Course in Electrical Engineering; First Term, fourth year, Course in Industrial Arts; and Third Term, Course in Manual Training.)
29. The same. Three times a week. (First Term, fourth year, Course in Electrical Engineering.) Twice a week. (Second Term, fourth year, Course in Industrial Arts.)
30. The same. Twice a week. (Second Term, fourth year, Course in Electrical Engineering; Third Term, fourth year, Course in Industrial Arts.)
31. **HYDRAULIC MACHINERY.** Recitations and lectures on pumping machinery. Three times a week. (Third Term, fourth year, Course in Mechanical Engineering.)
32. **MECHANICAL ENGINEERING AND POWER PLANTS.** A descriptive study of steam and gas engines, boilers, pumps, injectors and other machinery used in plants generating power. Five times a week. (Third Term, third year, Courses in Mechanical and Electrical Engineering; Third Term, fourth year, Courses in Industrial Arts and Manual Training.)
33. **STEAM ENGINES AND BOILERS.** A detail study of steam using and steam generating machinery. Five times a week. (First Term, fourth year, Courses in Mechanical and Electrical Engineering.)
34. **THERMODYNAMICS.** Lectures and recitations on the transmutations of heat and mechanical energies in steam, gas and air engines, and in air and ammonia compressors, together with a study of the tests of ideal and actual engines and of their indicator diagrams; the flow of gases through pipes and orifices. Five times a week. (Second Term, fourth year, Course in Mechanical Engineering.)

## METALLURGY AND MINERALOGY

[CHEMICAL HALL, Rooms 4 and 3]

*Professor N. W. Lord, Mr. Somermeir*

### COLLEGE OF ENGINEERING

2. **MINERALOGY.** Lectures. Similar to Course 52 in College of Arts, Philosophy and Science, but more practical, and arranged so as to be preparatory to Determinative Mineralogy (Course 3). Three times a week. Third term.
3. **DETERMINATIVE MINERALOGY.** Laboratory course in practical determination of minerals by physical and chemical tests. Each student is furnished with a set of apparatus, and works under an instructor's inspection. Brush's *Determinative Mineralogy* is used as a manual. Five times a week. Third term.
4. **METALLURGY.** A course of lectures upon fuel and its uses, iron and steel, copper, lead, gold and silver, their properties, tests, ores and details of the modes of reduction. The lectures are supplemented by a careful study of references to standard works and journals. Five times a week. First and second terms.
5. **METALLURGICAL LABORATORY.** Lectures and laboratory work. Laboratory practice in the analysis of iron and steel, fuel and slags, and the assays of lead, copper and zinc ores by wet methods, using approved methods as practiced in technical laboratories of metallurgical works. Course 5 must be preceded by Agricultural Chemistry, Courses 1, 8, 9; or by General Chemistry, Courses 7 and 12. Five laboratory periods a week. Three terms.

6. **ASSAYING.** Laboratory work. Practical work in the assaying of gold, silver and lead ores, by furnace methods. Oral instruction, with reference to standard books on assaying. Five laboratory periods a week. Second term.
7. **METALLURGICAL CONSTRUCTION.** Practice in the designing of furnaces and other metallurgical machinery, including detail drawings and estimates. Three times a week. First term. (Professors Lord and Ray.)
8. **ORE DRESSING AND COAL WASHING.** Lectures. Instruction in the methods of concentrating and enriching ores and fuels by mechanical means. Lectures with reference to Rittinger's *Aufbereitung*; Callon's *Course d' Exploration des Mines*; Kunhardt's *Ore Dressing*, and various papers in technical journals. Twice a week. First term.
9. **MINERAL CHEMISTRY.** Lectures and laboratory practice. Lectures upon fire damp, mine explosions, explosives, boiler, waters, poisonous gases, iron ores; iron and steel, their properties and modes of manufacture; coal and coke. Five hours a week. Third term.

### MILITARY SCIENCE AND TACTICS

[ARMORY]

*Major J. M. Burns, U. S. A., Retired*

1. **MILITARY DRILL.** Three times a week through the year.
2. **TACTICS.** Lectures and recitations. Twice a week. Second term.
3. **ART OF WAR.** Lectures and recitations. Twice a week. Second term.

### MINE ENGINEERING.

[CHEMICAL HALL, Room 26]

*Associate Professor Ray*

**ELEMENTARY ALGEBRA.** (Mathematics 2.) Wentworth. Five times a week. Three terms.

1. **MINE SURVEYING.** Lectures and field practice. This is similar to Course 4, but more elementary. The same text is used. The students have more practice in the drawing-room. Five times a week. First term.
2. **VENTILATION AND HAULAGE.** Lectures illustrated by experiments and maps of mines and models when possible, tests by safety lamps and anemometers, and solution of air distribution in coal mines. Five times a week. Second term.
3. **MINE OPERATING.** A course of lectures and practical instruction in mine book-keeping and accounts, cost of working, etc., particularly adapted to Ohio coal mining. Five times a week. Third term.
4. **MINE SURVEYING.** Field Practice in the use of instruments for surface and underground surveys. Full notes are taken, and maps and plans made in the drawing-room. Davie's *Surveying*, by Van Amringe, is used as a text-book. Five times a week. First term.
5. **MINE ENGINEERING.** Lectures. Mine operating, mining machinery, ventilation, shaft-sinking, working out deposits, etc. Constant reference is required to the standard works and to the leading technical journals, with practice in designing mine plants, draughting and estimates. Five times a week through the year.
6. **PLANS AND SPECIFICATIONS.** Five times a week. Third term. [Professors Lord and Ray.]

## PHARMACY

[CHEMICAL HALL, Rooms 13 and 12]

*Professor Kauffman, Assistant Professor Landacre, Assistant Professor Dye*

6. **PHARMACY.** General pharmaceutical processes. Lectures three times a week. First term.
7. **PHARMACY.** United States Pharmacopeia official preparations. Lectures twice a week. Laboratory practice daily. Second term.
8. **DISPENSATORIES.** Official preparations. Lectures twice a week. Laboratory practice daily. Third term.
9. **PHARMACEUTICAL CHEMISTRY.** Unofficial preparations. The National Formulary. Lectures twice a week. Laboratory practice daily. First term.
10. **EXTEMPORANEOUS PHARMACY.** Prescription practice. Lectures once a week. Laboratory practice three times a week. Second term.
11. **GENERAL PRACTICE.** Lectures twice a week. Dispensing practice daily. Prescription practice daily. Third term.
12. **MATERIA MEDICA.** Official drugs and classification. Three times a week. First term.
13. **MATERIA MEDICA.** Official and unofficial drugs. Three times a week. Second term.
14. **MATERIA MEDICA AND THERAPEUTICS.** Synthetic Products. Poisons and Antidotes. Three times a week. Third term.
15. **PHARMACEUTICAL ASSAYING.** Three times a week. First term.
16. **METHODS OF MANUFACTURE.** Three times a week. Second and third terms.
17. **GENERAL PHARMACY.** Two lectures, three laboratory periods a week. Throughout the year.
18. **LABORATORY.** Special work for veterinary students. Five times a week. Third term.

## PHILOSOPHY

[UNIVERSITY HALL, Rooms 33, 50, 49 and 51]

*Professor Scott, Mr. Hamilton*

## FIRST SEMESTER

51. **GENERAL PSYCHOLOGY.** Logic Begun. Four times a week. Required in the Courses for B. A., B. Ph. (L), and B. Ph. (M. L.)
53. **GENERAL PSYCHOLOGY.** Three times a week. Required in the Courses for B. Ph. (E.), B. Sc., for Law and Journalism.
55. **ETHICS.** Three times a week. Required in Course for B. Ph. (E.).
57. **HISTORY OF ANCIENT AND MEDIAEVAL PHILOSOPHY.** Three times a week. Elective after Courses 51 and 52.
59. **INTRODUCTION TO PHILOSOPHY.** Twice a week. Elective after Courses 51, 52, 56 and 57 or after Courses 53, 54, 55 and 56.
61. **PHYSIOLOGICAL AND EXPERIMENTAL PSYCHOLOGY.** Twice a week. Elective. This course begins with a general survey of the organic basis of personality, attention, etc., taking up in turn the sense organs and perception, motor processes and the personal equation.
63. **LEADING WORKS IN PHILOSOPHY.** Twice a week. Elective on the same conditions as Course 59.



## SECOND SEMESTER

52. **LOGIC COMPLETED, ETHICS.** Four times a week. Follows Course 51.
54. **LOGIC.** Three times a week. Follows Course 53.
56. **HISTORY OF MODERN PHILOSOPHY.** Three times a week. Required after Course 55. Also elective after Courses 51 and 52.
60. **METAPHYSICS.** Twice a week. Elective after Courses 51, 52, 57 and 56 or after Courses 53, 54, 55 and 56.
62. **PHYSIOLOGICAL AND EXPERIMENTAL PSYCHOLOGY.** Twice a week. Elective. The work of this semester presupposes Course 61. Individual topics will be assigned and the student will be required to report upon the general literature of the subject as well as to make an experimental study of some of the controverted points.
64. **LEADING WORKS IN PHILOSOPHY.** Twice a week. Elective on the same conditions as Course 60.

## PHYSICS

[UNIVERSITY HALL, Rooms 10, 14, 23 and 24]

*Professor Thomas, Assistant Professor Boyd, Mr. Kester*

## COLLEGES OF AGRICULTURE, ENGINEERING AND PHARMACY

1. **ELEMENTARY PHYSICS.** Recitations and experimental lectures. Five times a week. First and Second Terms. Text: Carhart & Chate's "Elements of Physics." (Required in all Short Courses.)
2. **MECHANICS AND HEAT.** Electricity and Magnetism, Sound and Light. Lectures and recitations. Three times a week. Through the year.
3. **PHYSICS.** Extension of Course 2, with practice in solution of problems. Twice a week. Through the year.
4. **ELECTRICITY AND MAGNETISM.** Lectures and recitations. Three times a week. First term. (Third year, Electrical Engineering.)
5. **PHYSICAL LABORATORY.** Elementary manipulation. Length, mass and time measurements. Work in density, elasticity and heat. Three times a week. Second and third terms.
6. **PHYSICAL LABORATORY.** Theory and practice of magnetic and electrical measurement, including the testing and standardizing of instruments; conductivity of conductors; insulation, capacity and resistance of insulated conductors and cables; temperature co-efficients; commercial measuring and testing instruments; strength and distribution of magnetic fields, magnetic moments, permeability; work in light including optical constants; spectroscopy; photometry of gas, electric and other lights. Five times a week. First, second and third terms. (Third year, Electrical Engineering.)
7. **PHYSICAL LABORATORY.** Two to three times a week. Through the year. Course 7 must be preceded by Course 2.
9. **PHYSICAL LABORATORY.** A second year's work in the Physical Laboratory. Three times a week, with five hours' credit. Course 9 must be preceded by Course 7.

The work in the Physical Laboratory begins with exercises in length, mass and time measurement, making use of scales, tapes and bars, micrometer screws, micrometer microscopes, the dividing engine, the cathetometer, the balance, chronometers, chronoscopes, etc. This course is intended to give the student facility in the use of instruments and knowledge of the theory of their construction and adjustment.



The determination of various physical<sup>1</sup> constants follows, with elementary exercises in heat, light, electricity and magnetism; after which the student takes up such advanced work as his taste and skill permit. The experimental work is accompanied by instruction in methods and in the discussion of results.

11. **MECHANICS, SOUND AND HEAT.** One lecture, two laboratory periods a week. Required in the Course in Pharmacy.

#### COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

##### FIRST SEMESTER

51. **MECHANICS, HEAT, ETC.** Three times a week. Second year. Science Course. Elective in the first year of the Courses of Arts and Philosophy.
53. **MECHANICS, SOUND AND HEAT.** One lecture, two laboratory periods a week. Elective in the First year of the Courses of Arts and Philosophy.
55. **LABORATORY.** Three to five times a week.
57. **LABORATORY.** Three to five times a week. Course 57 must be preceded by Course 55.
59. **THEORETICAL PHYSICS.** Five times a week. Lectures and assigned readings. Graduate and advanced undergraduate course.
61. **LABORATORY.** Five hours a week. To be preceded by Courses 55, 56, 57 and 58.

##### SECOND SEMESTER

52. **ELECTRICITY, MAGNETISM, ETC.** Three times a week. Follows Course 51.
54. **ELECTRICITY, MAGNETISM, ETC.** One lecture, two laboratory periods a week. Follows Course 53.
56. **LABORATORY.** Continuation of Course 55.
58. **LABORATORY.** Continuation of Course 57.
62. **THEORETICAL PHYSICS.** Five times a week. Follows Course 59.
64. **LABORATORY.** Five hours a week. Continuation of Course 61.

#### PHYSIOLOGY

(See Anatomy and Physiology)

#### POLITICAL ECONOMY

(See Economics)

#### POLITICAL SCIENCE

[UNIVERSITY HALL, Room 27]

*Professor Knight*

(All Courses in Political Science must be preceded by History 55 or 56)

##### FIRST SEMESTER

51. **INTERNATIONAL LAW.** Lectures and text-book. A study of public international law. Lawrence's *Principles of International Law*. Twice a week. (Given biennially. Not open in 1900-1901.)
53. **POLITICAL INSTITUTIONS OF THE UNITED STATES.** Lectures and recitations. A study of the origin, nature and workings of the political institutions of the United States, and an analysis of the form and powers of the government. Bryce's *American Commonwealth*. Three times a week.

55. **GOVERNMENT OF DEPENDENCIES.** A study of the political institutions of the leading colonial governments. Lectures, assigned readings and special reports. Twice a week.  
(Given biennially. Not offered in 1900-1901.)

## SECOND SEMESTER

52. **MUNICIPAL GOVERNMENT.** Lectures, collateral readings and special reports. A study of the development and status of modern municipalities, and a comparative study of recent American municipal charters. Twice a week. This Course forms a good sequent to Political Science 55, but is not dependent upon it.
54. **COMPARATIVE POLITICAL INSTITUTIONS OF EUROPE AND AMERICA.** Lectures, recitations, collateral readings and special reports. A comparative study of the political institutions and governmental forms and powers in the United States, England, Germany, France and Switzerland. Three times a week. Course 54 must be preceded by Course 53.
56. **HISTORY OF TREATIES AND MODERN DIPLOMACY.** A study of the leading treaties of modern times with special reference to their bearing upon international law. Accompanied by collateral reading and special reports. Twice a week. This course must be preceded by Course 51.

## RHETORIC AND ENGLISH LANGUAGE

[UNIVERSITY HALL, Rooms 38, 40, 42, 44, 55.]

*Professor Denney, Assistant Professors Graves, McKnight, Allen, Mr. Parker*

Courses 51, 52, and either 53 or 54 are fundamental; Courses 55, 56, and 60, are advanced courses in composition; Courses 57, 58, 75 and 76 are advanced courses in public speaking; Courses 69, 70, 71, 72, 73 and 74 are philological; Courses 67 and 68 are pedagogical. Courses 59, 61, 62, 73 and 74 are usually found suitable for graduate students as well as for advanced undergraduates. Further courses of study exclusively for graduate students are arranged at the beginning of each year to meet individual needs and purposes.

## FIRST SEMESTER

51. **ENGLISH COMPOSITION.** Three times a week. Credit two and one-half hours.  
(a) Scott and Denney's "Paragraph Writing." Themes. Twice a week.  
(b) Oral Practice. Once a week with the instructor in public speaking.
53. **STUDIES IN EXPOSITION.** Four times a week.  
(a) Rhetorical analysis of prose; with essay-writing. Three times a week.  
(b) Oral composition. Once a week with the instructor in public speaking.  
Course 53 must be preceded by Course 52.
55. **RAPID WRITING.** Once a week. The preparation of articles for the press, with exercises in observation, reporting, abstracting, condensation, expansion, interviewing, proof-reading, correspondence, and a study of newspaper forms. A special course for students preparing for journalism. Open to those who have passed Course 53 or 54.
57. **BRIEF MAKING AND ARGUMENTATION.** Three times a week. Practice in making briefs of noted speeches and original briefs for debate; lectures on logical analysis, evidence and argumentation. Class debates once a week, criticised by the instructor in public speaking. Course 57 must be preceded by Course 53 or 54.

59. **POETICS.** Twice a week. Lectures, prescribed readings, and reports. Gummere's "Hand-book" and Aristotle's "Theory of Poetry" used for reference. Course 57 must be preceded by Course 53 or 54.
61. **RHETORICAL THEORY.** Two hours a week. Lectures on the principles of style, and theories of rhetoric as historically developed, accompanied by special investigations of rhetorical problems with reports and discussions. An introduction to methods of research and the use of material. Exclusively for advanced undergraduates and graduates, who are making their theses in one of the English Departments.
67. **TEACHERS' COURSE IN RHETORIC.** Two hours a week. Lectures, conferences and prescribed readings on the teachings of composition and rhetoric in the schools. A special course for teachers and those intending to teach. Open only to advanced undergraduates, and to teachers who hold auditors' tickets.
69. **HISTORY OF THE ENGLISH LANGUAGE.** Twice a week. Emerson's "Brief History," with lectures and reading.
71. **OLD ENGLISH PROSE.** Twice a week. Bright's "Anglo-Saxon Reader." Course 71 must be preceded by Courses 69 and 70.
73. **OLD AND MIDDLE ENGLISH PHILOLOGY.** Two hours a week. Course 73 must be preceded by Courses 71 and 72.
75. **EXTEMPORE SPEAKING.** Two hours a week. Speaking from briefs and topical outlines on subjects previously mastered. Course 75 must be preceded by Courses 57 and 58.

## SECOND SEMESTER

52. **ENGLISH COMPOSITION.** Three times a week. Credit two and one-half hours.
  - (a) Cairns' "The Forms of Discourse." Themes. Twice a week.
  - (b) Oral Practice. Once a week with the instructor in public speaking. Course 52 must be preceded by Course 51.
54. **STUDIES IN EXPOSITION.** Four times a week. Repetition of Course 53. Course 54 must be preceded by Course 52.
56. **RAPID WRITING.** Once a week. Continuation of Course 55, and must be preceded by Course 55.
58. **BRIEF-MAKING AND ARGUMENTATION.** Three times a week. Continuation of Course 57 and must be preceded by Course 57.
60. **SHORT STORIES.** Twice a week. Lectures, prescribed readings, reports, and practice under criticism. A study of the plan, purpose, diction, and structure of selected narratives, with plot analysis. Course 60 must be preceded by Course 53 or 54.
62. **PROBLEMS IN CRITICISM.** Two hours a week. Special research work, reports and a thesis. Course 62 must be preceded by Course 61.
68. **TEACHERS' COURSE IN ENGLISH LANGUAGE AND GRAMMAR.** Two hours a week. A special course for those engaged in teaching and those intending to teach. Open only to advanced undergraduates, and to teachers who hold auditors' tickets.
70. **DEVELOPMENT OF ENGLISH PROSE.** Twice a week. A rapid survey of the history of English idiom, with lectures and readings. Course 70 must be preceded by Course 69.
72. **OLD ENGLISH PROSE AND POETRY.** Continuation of Course 71 and must be preceded by Course 71.



74. **OLD AND MIDDLE ENGLISH PHILOLOGY.** Continuation of Course 73 and must be preceded by Course 73.
76. **EXTEMPORE SPEAKING.** Continuation of Course 75 and must be preceded by Course 75.

## COLLEGES OF AGRICULTURE AND DOMESTIC SCIENCE, ENGINEERING AND PHARMACY

6. **ADVANCED RHETORIC.** Twice a week.

A. Prescribed readings in the literature of technology and science; and the analysis of specimens of this literature. Once a week.

B. Reports, abstracts, memoranda, and notes of lectures and of articles in the technical journals; practice in drawing specifications and writing brief papers on technical and scientific subjects. Once a week.

Two hours a week. (First, Second and Third Terms, second year, Courses in Industrial Arts, Manual Training, and Electrical and Mechanical Engineering; third year, Courses in Architecture, Ceramics, Chemistry, and Civil and Mining Engineering.)

5. **ENGLISH COMPOSITION.**

A. Scott and Denney's Paragraph-Writing; Macaulay's Warren Hastings; Cairn's Forms of Discourse; Themes. Twice a week.

B. Oral practice with the instructor in public speaking. Once a week.

(First, Second and Third Terms, first year.) Three times a week.

Credit two and one-half hours. All four-year courses.

4. **ADVANCED COMPOSITION.** Twice a week. Elective.

## ROMANCE LANGUAGES AND LITERATURES

[UNIVERSITY HALL, Rooms 35 and 34.]

*Professor Bowen, Assistant Professor Bruce*

The Department of Romance Languages and Literature offers courses of instruction and research in the three leading languages of the group whose origin is to be traced to the Latin or Roman idiom. These three languages are the French, Italian and Spanish. The foremost place in the work of the Department is naturally assigned to the French. In the study of this language the first desideratum is a thorough reading knowledge, which shall lead directly to the study of the literature. For all the languages taught in this department, it is assumed that the highest educational value lies in the acquiring of the ability to read them intelligently, to translate them correctly, to understand, appreciate and compare the various phases of their literatures, and to grasp the principles of their historic development. The practical side of the work, that which deals mainly with the acquiring of the ability to speak these languages with accuracy and ease, is regarded as supplementary, and as such receives due attention.

Exclusive of library facilities, the Department possesses, as aids in illustrating and supplementing the work, the following collections: Complete set of maps (including Paris); illustrated volumes showing various phases of the arts and sciences, costumes and manners, public instruction, dramatic representations, etc., in France at different epochs; large photographs and engravings of the principal French writers; collections of French prose extracts for use in sight reading.



## I. FRENCH

## FIRST SEMESTER

51. **ELEMENTARY FRENCH.** Four hours a week. Grammar: Edgren's (Part I), Grandgent's Essentials, or Joynes' Minimum, with written exercises. Reader: Super's (from Part II) or Whitney's (Parts I and II) or Kuhns' French Reading for Beginners. In this course the study of the language is taken up from the beginning. Stress is laid at first upon the acquisition of a correct pronunciation, after which the entire energy of the student is directed toward the attainment of a full and accurate reading knowledge of the language. Grammar and composition are made to contribute to this end.
53. **SCIENCE READING.** Two hours a week. A course introductory to the vocabulary of scientific literature, designed to familiarize the student with technical terms and style. Open to those who have completed Courses 51 and 52, or who have received credit for French as an entrance subject.
55. **MODERN FRENCH LITERATURE.** Four hours a week. Contes and Novels: Bercy's *Contes et nouvelles modernes*. Balzac, Eugénie Grandet. Prose Composition: Edgren's French Grammar [Syntax] or Chardenal's French Exercises for Advanced Pupils. Lectures supplement the work; private reading required; systematic attention given to syntax and idiom. Open to those who have completed Courses 51 and 52, or who have received credit for French as an entrance subject.
57. **FRENCH COMEDY.** Three hours a week. Study of the growth of French Comedy, with work centering upon Molière [four plays], Regnard [le Joueur] and Beaumarchais [le Barbier de Séville]. Lectures and collateral reading. Open to those who have completed Courses 55 and 56.
59. **ADVANCED PROSE COMPOSITION.** One hour a week. Practice in speaking and writing French. Intended for advanced students who desire special training on the practical side of the language. Open to those who have completed Courses 55 and 56.
61. **FRENCH TRAGEDY.** Three hours a week. Racine and Voltaire. Lectures and readings, with assigned topics, reports and discussions. Part of the lectures given in French. Practical work continued. An advanced Course intended for students who have completed Courses 57, 58, 59 and 60. Any others must have the special consent of the head of the Department.
63. **FRENCH LITERATURE BEFORE THE SEVENTEENTH CENTURY.** Three hours a week. Special study of la Chanson de Roland. General Survey of the Old French period. Critical study of Montaigne [De l'institution des enfans]. Lectures (partly in French) on the literature of the sixteenth century. Assigned topics and reports. An advanced Course with the same conditions as in Course 61.  
(Given biennially. Not offered in 1900-1901.)
65. **LITERARY CRITICISM IN FRANCE.** Two hours a week. Readings and lectures. Selections from Sainte-Beuve, Lemaitre, Brunetière and others. Open to those who have completed Courses 55 and 56.

## SECOND SEMESTER

52. **MODERN PROSE AND PLAYS.** Continuation of Course 51. Four hours a week. Historical and narrative prose; one or more prose comedies. Sight reading is emphasized.

54. **SCIENCE READING.** Continuation of Course 53. Two hours a week.
56. **MODERN FRENCH LITERATURE.** Continuation of Course 55. Four hours a week. Lyric Poetry: Bowen's Modern French Lyrics. Drama: Comparative study of the classical and the romantic drama: Corneille, Horace; Hugo, Hernani. Private reading: Hugo's *la Chute*.
58. **RECENT FRENCH PROSE.** Three hours a week. Rapid reading with lectures. Critical study of some of the leading prose writers of the present, such as Bourget [Selections ed. Van Daell], Coppée [On rend l'argent], Daudet [le Nabab], Zola [la Débacle]. Open to those who have completed Courses 55 and 56.
60. **ADVANCED PROSE COMPOSITION.** Continuation of Course 59. One hour a week.
62. **CHATEAUBRIAND AND THE PRECURSORS OF THE ROMANTIC MOVEMENT.** Three hours a week. Lectures and readings, with assigned topics, reports and discussions. Part of the work conducted in French. Practical drill continued. An advanced course intended for students who have completed Courses 57, 58, 59, 60 and 61 (or 63.) Any others must have the special consent of the head of the Department.
64. **THE DEVELOPMENT OF THE FRENCH NOVEL.** Three hours a week. An advanced course with the same plan of work and the same conditions as in Course 62.  
(Given biennially. Not offered in 1900-1901.)  
Courses 62 and 64 are supplemented, toward the close of the year, by several lectures on: Methods of teaching French and the teacher's equipment.
66. **FRENCH TRAVEL - WRITERS.** Two hours a week. Readings and lectures. Scenes of travel from Gautier, Hugo and Dumas. Open to those who have completed Courses 55 and 56.

## II. ITALIAN

51. **GRAMMAR AND READINGS.** Two hours a week. First Semester. Grandgent's or Edgren's Italian Grammar and Bowen's First Italian Readings. Open to those who have completed Courses 51 and 52 (or an equivalent) in French.
52. **GOLDONI AND DANTE.** Continuation of Course 51. Two hours a week. Second Semester.  
(Italian is given biennially. Above Courses not offered in 1899-1900.)

## III. SPANISH

51. **GRAMMAR AND READINGS.** Two hours a week. First Semester. Edgren's Spanish Grammar and Matze's First Spanish Readings.
52. **MODERN PROSE AND DRAMA.** Continuation of Course 51. Two hours a week. Second Semester. Alarcón el Capitán Veneno (Ford); Galdós, *Dona Perfecta*; Cortina, *el Indiano*. Brief talks on Spanish literature and philology.  
(Spanish is given biennially. Above Courses not offered in 1900-1901.)

## SANSKRIT

(See Germanic Languages)

## SHOPWORK

(See Industrial Arts)

## SOCIOLOGY

(See Economics and Sociology)

## VETERINARY MEDICINE

[VETERINARY HOSPITAL AND TOWNSHEND HALL]

*Professor White, Dr. Lavery, Dr. Frederick, Dr. Brumley*

## COLLEGES OF VETERINARY MEDICINE AND AGRICULTURE

11. **VETERINARY ANATOMY:** Osteology. Lectures illustrated with skeletons and anatomical preparations. Dissections. Five times a week. First term.
12. **MYOLOGY, SPLANCHNOLOGY.** Practical dissections and demonstrations on cadavers. Five times a week. Second term.
13. **ANGIOLOGY AND NEUROLOGY.** Lectures illustrated by drawings, in the dissecting room, and on anatomical models. Five times a week. Third term. Books recommended for reference and study: Strangeway's Veterinary Anatomy (new edition); Chauvau's Comparative Anatomy; McFay-dean.
14. **GENERAL PATHOLOGY AND MORBID ANATOMY.** Lectures four times a week. First term. Text-book: Green's Morbid Anatomy.
15. **THEORY AND PRACTICE OF VETERINARY MEDICINE.** Sporadic, non-infectious diseases. Four times a week. Second term.
16. **THEORY AND PRACTICE OF VETERINARY MEDICINE.** Four times a week. Third term.
17. **THEORY AND PRACTICE OF VETERINARY MEDICINE.** Four hours a week. First term.
18. **THEORY AND PRACTICE OF VETERINARY MEDICINE.** Infectious and contagious diseases. Four times a week. Second term. Text book: Friedberger and Froehner
19. **GENERAL THERAPEUTICS.** Lectures. Five times a week. Third term.
20. **GENERAL SURGERY.** Lectures and demonstrations on the use of antiseptics in wound healing; suturing and bandaging; use of local and general anæsthesia, etc. Five hours a week. First term.
21. **SURGICAL DISEASES.** Lectures; illustrated by practical demonstrations, by drawings, on clinical cases. Head and neck. Five hours a week. Second term.
22. **SURGICAL DISEASES.** Continuation of 21. Trunk and limbs. Five hours a week. Third term.
23. **SURGICAL DISEASES.** Continuation of 22. Five hours a week. First term.
24. **OPERATIVE SURGERY.** Practical operations on narcotized subjects. Three hours a week. Second term. Text books: Moeller; Liautard; Fleming.
25. **PRINCIPLES OF HORSESHOEING.** Lectures and demonstrations. Includes diseases of the foot and pathological shoeing. Four hours a week. First term. Text book: Dollar.
26. **MEAT INSPECTION.** Lectures and recitations. Text book: Peter's Meat Inspection.
27. **CANINE DISEASES.** Lectures and recitations. Three times a week. First term.



28. **CANINE DISEASES.** Continuation of 27. Three times a week. Second term.  
Text book: Mueller Glass.
29. **VETERINARY OBSTETRICS.** Lectures, recitations, and clinical practice. Three hours a week. Second term. Text books: Fleming; Dalrymple.
30. **OPHTHALMOLOGY.** Diseases of the Eye. Two hours a week. Third term.
31. **CLINIC IN THE VETERINARY HOSPITAL:** Stationary and Ambulatory. Daily at 10 to 12 m. Students of the second and third years are required to take part in the clinics. First, second and third terms.
32. **DISEASES OF THE COW:** Special Course for dairy students. Three times a week. Second term.
33. **VETERINARY MEDICINE FOR AGRICULTURAL STUDENTS.** Veterinary anatomy. Five times a week. First term.
34. **VETERINARY MEDICINE FOR AGRICULTURAL STUDENTS.** Contagious and non-infectious diseases. Five hours a week (one hour devoted to practical, clinical work). Second term.
35. **VETERINARY MEDICINE FOR AGRICULTURAL STUDENTS.** Contagious and non-infectious diseases. Five hours a week (one hour devoted to practical, clinical work). Second term.

## ZOOLOGY AND ENTOMOLOGY

[BIOLOGICAL HALL, Rooms 3, 4, 7, 8, 9 and Third Floor]

*Professor Osborn, Assistant Professor Hine, Mr. Landacre*

### COLLEGE OF AGRICULTURE

1. **INVERTEBRATE AND VERTEBRATE.** Three times a week. Invertebrate, first and second term; Vertebrate, third term. This course includes a general discussion of groups, dissection of types and an outline of classification. Especial attention is given to forms of economic importance either from their detrimental effects on crops, stock, etc., or from their utility in various industries or as domesticated species.
3. **ECONOMIC ENTOMOLOGY.** Insects of Forest, Orchard and Garden. Three times a week. Third term. A detailed study of injurious species intended particularly for students of Horticulture. The work includes field studies, collections, reports on observation, etc.
4. **ECONOMIC ENTOMOLOGY.** Twice a week, through the year. This Course must be preceded by Course 1. A systematic study of the group of insects with special reference to injurious and beneficial species. A foundation is laid for special study in Entomology. Preparation of collections, essays, life history studies and use of remedial measures along with laboratory studies on general anatomy and class recitations and lectures.
7. **SYSTEMATIC AND PRACTICAL ENTOMOLOGY.** Two lectures and one laboratory period a week. Third term. An elementary practical Course for students in the Short Course in Agriculture.
8. **PARASITES OF DOMESTIC ANIMALS.** A lecture course devoted to the principal parasitic animals affecting domestic animals intended especially to meet the needs of those who intend to give particular attention to stock raising. Once a week. First term.
9. **SPECIAL ENTOMOLOGY.** Studies of life-histories, collection and classification in selected groups. Field work and lectures. Four periods each week. Elective. Fall term.



10. **SPECIAL ENTOMOLOGY.** Studies of winter condition of Insects, Insecticides, Insecticide machinery, Methods of preparing insect illustrations, Greenhouse pests, etc. Four periods each week. Elective. Winter term.
  11. **SPECIAL ENTOMOLOGY.** Investigations of selected groups or species. Lectures on Insects legislation, distribution, natural enemies, special methods of control, etc. Four periods each week. Elective. Spring term.
- Courses 9, 10 and 11 are intended as practical courses in entomological research adapted especially for those who wish to give special attention to this branch with reference to future work in Agriculture or Horticulture and to furnish a preparation for those who have in view work as entomological investigators in experiment stations or as teachers in agricultural schools. They may be taken as graduate courses if not elected earlier or continued as special lines of research during a graduate course embracing other special subjects.

#### COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

Courses 57, 58, 59, 60, 61, 62 must be preceded by 51 and 52, 53 and 54, 64 or Zool. 1, of College of Agriculture.

#### FIRST SEMESTER

41. **COMPARATIVE ZOOLOGY.** Two lectures and one laboratory period a week. This course includes studies of types of different groups, discussions of principles and an outline of classification. Thomson's "Outlines" used as a basis.
53. **COMPARATIVE ANATOMY OF VERTEBRATES.** A laboratory course. Two laboratory periods and one quiz each week; devoted to Osteology, Myology, Splanchnology, Neurology and a full study of certain type forms. Weidersheim's "Comparative Anatomy of Vertebrates" is followed as a basis.
55. **COMPARATIVE ANATOMY OF VERTEBRATES.** A laboratory course. Four laboratory periods and one quiz each week. Similar to 53, but more extended.
57. **ZOOLOGY AND ANATOMY.** Advanced laboratory. Three laboratory periods a week.  
On entering this course one may choose his work from any of the following lines:
  - (a). **ANATOMY OF THE FROG.** The guides used are Ecker's "Anatomy of the Frog," and Huxley and Martin's "Practical Biology." Both the gross anatomy and the histology will be studied, the student himself preparing the tissues, as directed; as time may permit, comparisons will be made with other Amphibia.
  - (b). **COMPARATIVE ANATOMY OF INVERTEBRATES.** The manuals used are: Shipley's "Invertebrate Zoology," Lang's "Text-book of Comparative Anatomy," McMurrich's Invertebrate Morphology" and Parker and Haswell's "Text-book of Zoology."
  - (c). **INVERTEBRATE EMBRYOLOGY.** Text-book, Translation of Korschelt and Heider's "Embryology of Invertebrates."
  - (d). **VERTEBRATE EMBRYOLOGY.** The embryology of the chick or frog will be thoroughly studied as a basis; this will be followed by a study of the embryology of the fish, amphibian, and mammal. The course aims to give thorough drill in embryological and histological technique. The books used are Foster and Balfour's "Elements of Embryology," and the works of Hertwig, Minot, Balfour and Marshall.

- (e). **COMPARATIVE NEUROLOGY.** This is a course in the anatomy and histology of the central nervous system, and will include a study of the brain and spinal cord of all classes of vertebrates. Edinger's "Lectures on the Central Nervous System" will be followed, and numerous treatises and special papers used as a reference.
- (f). **CELLULAR BIOLOGY.** Text-books, Hertwig's "The Cell and the Tissues," and Wilson's "The Cell in Development and Inheritance."  
 A student whose major lies in Zoology may take two full years' work selected from subjects named in the foregoing paragraph.  
 Zoological Seminar. The class will meet weekly to discuss methods and present reviews of current literature. Each student will be expected to present at least one major and one minor review each term.
59. **ZOOLOGY AND ANATOMY.** Advanced laboratory. Five times a week. Similar to 57, but more extended.
61. **ENTOMOLOGY.** An advanced Practical Course. Five periods a week. The courses are designed for those who wish to make a thorough study of some particular group of insects or to follow some definite line of the science, either morphological or systematic, or to fit themselves for professional entomological work. The work will be arranged with each student.  
 The collections, monographs, and apparatus at the command of the Department afford excellent opportunities for advanced work in Entomology.  
 Students are required to take part in the Zoological Seminar of the preceding paragraph.
65. **ORNITHOLOGY.** Two laboratory periods a week. Advanced work on Morphology, Ecology and Classification of Birds.

## SECOND SEMESTER

52. Continuation of Course 51. Lectures twice a week. One laboratory period.
54. Continuation of Course 53. Three laboratory periods a week.
56. Continuation of Course 55. Five laboratory periods a week.
58. Continuation of Course 57. Three laboratory periods a week.
60. Continuation of Course 59. Five laboratory periods a week.
62. Continuation of Course 61. Five laboratory periods a week.
66. Continuation of Course 65. Two periods a week.



# ENROLLMENT

1899-1900



## COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE

## GRADUATE STUDENTS—4

Derby, Florence, B. Ph.....	Columbus
Gilmore, William Henry, B. Sc. (Agr.).....	Millersport
Nichol, Gertrude, B. Ph.....	Columbus
Sheldon, Helen Griswold, A. B. (Vassar College).....	Shepard

## UNDERGRADUATES — 153.

	Course	Hours	Credit	Home Address
*Abbott, George Franklin.....	Agr.	210½	56	Medina
Abbott, Carl B.....	Agr.	206	112	Medina
Adcock, James G.....	Agr. S.	98	...	Webb Summit
Armstrong, Edgar Manley.....	Dairying	...	...	Zanesville
Armstrong, Clara .....	Dom. Sci.	203	150	Columbus
*Arnold, Frank Washington.....	Agr.	210½	43½	Somerset
*Atherton, William Thomas .....	Agr.	210½	71	Carrollton
Baldwin, Ethel Florence.....	Dom. Sci.	202½	47	Columbus
Bauman, Christian William.....	Dairying.	...	...	Axtel
*Beale, Harry Glenn.....	Agr.	206	99	Mt. Sterling
*Beatty, Madge .....	Dom. Sci.	202½	41½	Columbus
Beneker, Robert Edgar.....	Agr.	210½	54½	Cincinnati
Boggs, Howard Shannon.....	Agr. S.	98	60½	Kingston
Bratton, Alice May.....	Dom. Sci.	203	144	Columbus
Breckenridge, William Kemper.....	Agr. S.	98	98+5	Watertown
Breese, Clarence Nye.....	Agr. S.	98	97+6	Lima
Bugby, Morris O.....	Agr.	210½	51½	Kingsville
*Bundy, Lyman Edmund.....	Special	...	47	Colerain
Byers, William Gerald.....	Agr. S.	98	48	Lilly Chapel
Cahill, Verrill W.....	Agr. S.	98	44	Tiro
Candy, Ella Belle.....	Special	...	24	Columbus
Carey, Nathan Harold.....	Dairying	...	...	Gurneyville
*Church, James Scott.....	Agr.	206	55½	Palmyra
Clark, Herman Alfred.....	H. & F.	206	96	Medina
Clark, Ollie Dwight.....	Agr. S.	98	48	Wheaton
Clawson, Lucy Blanche.....	Dom.Sci.S.	90	90+11½	Okeana
Coberly, Edward D.....	Agr. S.	98	50+2	Georgesville
Conradi, Albert Frederick.....	Agr.	206	98	New Bremen
*Cotton, Edwin Charles.....	H. & F.	206	115½	Elyria
Cotton, George Washington.....	Dairying	...	...	Elyria
Crabb, James Byel .....	Agr. S.	98	98+11	Mt. Sterling
Crawford, Mary B.....	Dom. Sci.	203	195+10	Blaine
Creamer, Jesse Carlton.....	Agr. S.	98	54	Jeffersonville
Dallas, John Thomas, B. Sc.....	(Agr.)	...	...	Pine Valley
Davis, Carrie Samantha.....	Special	...	...	Rio Grande
*Davis, Ella Augusta.....	Dom. Sci.	202½	52½	Constantia

\* Preparatory work incomplete.

	Course	Course Hours	Credit Hours	Home Address
Davis, Vernon Hayes, B. Sc.....	(Agr.)	...	...	Byesville
Day, Albert Edward.....	Agr. S.	98	89+29	Mt. Carmel
*Demorest, Herbert Russell.....	Agr.	206	91	Columbus
Dixon, Eva Nicholson.....	Dom. Sci.	203	122	Columbus
Dock, Norton .....	Agr. S.	98	59+2	Cincinnati
*Dresbach, Mary .....	Dom. Sci.	203	132	Columbus
Dunlap, Frederick .....	Special	...	19	Chillicothe
Dunn, Hattie Franklin.....	Special	...	29	Columbus
Everett, William Russell.....	Dairying	...	...	Gnadenhutten
Ewart, John Weston.....	Dairying	...	...	Mogadore
*Ferguson, Ollie .....	Agr.	210½	33½	Steubenville
*Finlay, Annetta Jane.....	Dom. Sci.	203	104	Keene
Fippin, Elmer Otterbein, B. Sc.....	(Agr.)	...	...	Galloway
Fisher, Milo Eddison.....	Agr. S.	98	44	Chili
Flory, Charles Henry.....	H. & F.	206	73	Arcanum
*Foster, Emma Warwick.....	Dom. Sci. S.	90	68½	Higbys
Foster, John Cook, Jr.....	Agr. S.	98	61+1½	Higbys
Foster, Michael Leander.....	Dairying	...	...	Axtel
Frank, John Nicholas.....	Agr. S.	98	32+4	North Amherst
*Galehouse, David William.....	Agr.	206	142	Doylestown
*Gibson, Herbert R.....	Agr. S.	98	34+48	Camp Chase
*Gladding, Maynard Marcus.....	Agr.	206	93	Windsor
Graber, Christian .....	Dairying	...	...	Burton
*Hamilton, Frank Edward.....	Agr.	206	93	Brownsville
Hanna, Charles Mitchell.....	Agr. S.	98	47	Tiro
*Hard, Jesse M.....	Agr.	210½	21	Olentangy
Harper, Merritt .....	Agr.	206	150	Grove City
Hatfield, Clifford Christian.....	Agr. S.	98	52	Lebanon
Hayden, Cassius Clay, B. Sc.....	(Agr.)	...	...	Oakdale
Heller, John .....	Dairying	...	...	Ona, W. Va.
Henderson, Harry Harold.....	Agr. S.	98	16	West Cairo
*Hess, Flora Louise.....	Dom. Sci.	203	65	North Columbus
*Hill, Mamie Faye.....	Dom. Sci.	203	116	Columbus
*Holloway, Carrie .....	Dom. Sci.	203	50	Columbus
Holt, David C.....	Dairying	...	...	Galloway
Hoover, Clarence Boal.....	Agr.	210½	46½	Venice
*Hoover, Edna Brown.....	Dom. Sci.	202½	24	Columbus
Hunt, Jay Horatio.....	Dairying	...	...	Columbus
Hyatt, James Vernon.....	Agr. S.	98	44	Augusta
Immell, Woodford Elias.....	Agr. S.	98	29+3	Chillicothe
Innis, Byron Schofield.....	Agr. S.	98	51	Wagram
*Irwin, Arthur Milton.....	Agr.	210½	37½	Parkman
*James, Harold Francis.....	H. & F.	210½	32½	Pekin, China
Jennings, Otto Emery.....	Agr.	206	93	Olena
Jones, Lloyd .....	Agr. S.	98	98+7½	Columbus
Karrer, Carl .....	Agr. S.	98	5	Dublin
Kaylor, Rollie Washington.....	Dairying	...	...	Bellefontaine
*Kelley, William Lester.....	Agr.	206	85	Newark
Kinney, Charles C.....	Dairying	...	...	Yellow Springs
Klein, Edith May.....	Special	...	11	Columbus
Kynett, Albert Gardner.....	Dairying	...	...	Collier, W. Va.

\* Preparatory work incomplete.

	Course	Course Hours	Credit Hours	Home Address
Ladrach, John J.....	Dairying	...	...	Birmingham
Langdon, Elmer .....	Agr. S.	98	63+3	Sabina
Lanman, Faith Robinson.....	Dom. Sci.	202½	52½	Columbus
Lindley, Lulu .....	Dom. Sci.	202½	38	Fredericktown
*Linsley, Frank Preston.....	Agr.	210½	15½	Gallipolis
*Long, Frank C.....	Agr.	206	73	West Sonora
Mallow, Harry Campbell.....	Agr. S.	98	40	Washington C.H.
Marshall, Ida .....	Dom. Sci.	203	89	Hemlock
Mason, Arthur Devillo.....	Agr.	206	119	Wellington
Mears, William Holt.....	Agr. S.	98	48+3	Moscow
Meek, Eunice .....	Dom.Sci.S.	90	45	Afton
Meiche, Louis .....	Agr. S.	98	98+7	North Royalton
Mesloh, Harry Smith.....	Agr. S.	98	55	New Bremen
Miller, Merritt Finley, B. Sc.....	(Agr.)	...	...	Ridpath
Miller, Maynard Everett, B. Sc.....	Dairying	...	...	Dodgeville
Miner, Charles Austin.....	Agr. S.	98	98+16	Bristolville
Mooney, Charles Napoleon, B. Sc.....	(Agr.)	...	...	Milan
Murray, Edna Earl.....	Dom. Sci.	203	132	Columbus
*McAlister, Lee Paden.....	Agr.	210½	31	Thornville
McCall, Arthur Gillet, B. Sc.....	(Agr.)	...	...	McGraw
McClelland, Chester Arthur.....	Agr.	210½	48	Terrace Park
McKinley, Ira Esdras.....	Agr. S.	98	20	Vaughnsville
McMahon, Mary Gertrude.....	Dom.Sci.S.	90	80½	Columbus
*McOwen, James Jr.....	H. & F.	206	157	Ovid
*Neill, Nelson Prentice.....	Agr.	206	150	Venice
Nelson, Fred Burgess.....	Agr. S.	98	79	Coe Ridge
Nelson, Fred Walker.....	Agr. S.	98	52	Salem Center
Nelson, Homer Thrall.....	Agr. S.	98	...	Selma
Oliver, Charley Ray.....	Dairying	...	...	Portersville, Pa.
Orton, Louise Taft.....	Special	...	4	Columbus
Osborn, Alice .....	Dom.Sci.S.	90	90+43	Cadiz
*Osborn, Harry Lester.....	Agr.	210½	48	Chardon
Oswald, Rudolph .....	Dairying	...	...	Aurora
Perry, Elma Brooks.....	Dom. Sci.	203	176	Troy
Perry, John Cole.....	Agr.	206	165	Columbia Station
Peters, Frances Bush.....	Dom.Sci.S.	94½	44½	Columbus
Poindexter, Charles Cardoga.....	Agr.	210½	51½	Park'sb'g, W.Va.
Postle, Stuart A.....	Dairying	...	...	Camp Chase
Richards, Don Arthur.....	Dairying	...	...	Medina
*Riley, Valeria .....	Dom. Sci.	203	131	Washington C.H.
*Ruhlen, La Mott.....	Agr.	206	104½	Plain City
*Schaeffer, Freelan Wilbert.....	Agr.	206	188	Spanker
*Scott, Edith Clare.....	Dom. Sci.	202½	26	Mt. Pleasant
Senter, Pearl .....	Special	...	45	Shepard
Shaffer, Jesse .....	Dairying	...	...	Black Lick
Shaw, Edward Lee.....	Agr.	206	108	Newark
Shepard, Allen Day.....	Dairying	...	...	Conneaut
*Sigrist, John Larkum.....	Agr.	206	107½	Congress
*Skiles, Blanche Gertrude.....	Dom. Sci.	203	115	Shelby
*Smith, Wilford B.....	Agr.	210½	36	Chesterhill
Snyder, Addison Hogan .....	Agr.	206	158	Tacoma



	Course	Hours	Credit Hours	Home Address
Stahl, Price Ewing.....	Agr. S.	98	47+2½	Jewett
Steward, Charles Benjamin, B. Sc....	(Agr.)	...	...	Marcy
Stiers, Thomas Vernon.....	Agr. S.	98	26	Zaleski
Sumner, Mrs. R. M.....	Special	...	12	Columbus
Taylor, Frederick Wellington, B. Sc..	(Agr.)	...	...	Wooster
Thomas, Elmer Ellsworth.....	Dairying	...	...	Newark
Thompson, Jesse Eugene.....	Agr. S.	98	53	Bristolville
Trowbridge, Warner Wesley.....	Agr. S.	98	98+6	Painesville
Tyler, Fred J., B. Sc.....	(H. & F.)	...	...	Perry
*Walker, William .....	Agr.	210½	36	West Canaan
Wampler, Milton Eugene.....	Agr. S.	98	55+3	Dayton
Weisman, Laura Anna, B. Sc.....	(Dom.Sci.)	...	...	Columbus
Wheeler, Leroy Thomas.....	Agr. S.	98	58+6	Chillicothe
Williamson, Frances Glade.....	Dom.Sci.S.	94½	36	Columbus
Wolfe, La Verne Florence.....	Dom.Sci.S.	94½	45	Lucas

\* Preparatory work incomplete.

## COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

### GRADUATE STUDENTS—25

Allen, Lucy, B. A., 1897.....	Columbus
Barrows, Sarah Tracy, M. L.....	Columbus
Blakiston, Mary, B. Ph., 1893.....	Columbus
Bohn, William Edward, B. A. (German Wallace College).....	Olmsted Falls
Brown, Harold Warner, B. Sc. (Cornell University).....	Oberlin
Collett, Samuel William, M. Sc. (Moore's Hill College).....	Columbus
Converse, Edward Jasper, B. A., 1886, B. D. (Yale University).....	Columbus
Doney, Carl Gregg, B. Sc., 1891, LL. B., M. A.....	Delaware
Good, Paul Revere, B. A., 1899.....	Westerville
Gore, Herbert Charles, B. Sc. (University of Michigan).....	Chicago, Ill.
Hannum, William H., B. A., 1887.....	Columbus
Hirst, Anna Brewster, B. A. (Antioch College).....	Yellow Springs
Huddleson, Don Carlos, G. Ph., 1897.....	Columbus
Jeffrey, Maude Dorothy, B. Ph., 1895.....	Columbus
Kirby, Harriet Rebecca, B. A., 1898.....	Columbus
Maag, Benjamin (Wooster University).....	Mt. Eaton
Machwart, Washington J., B. S. (Muskingum College).....	Mt. Eaton
Mann, Wilbur Edwin, B. Ph., 1899.....	Columbus
Milligan, Mrs. Clara F., B. A., 1886.....	Columbus
Parker, John Bernard, B. A., 1898.....	Danville
Raymond, Maude, B. Ph., 1899.....	Columbus
Robinson, Zella Vina, B. Ph., 1898.....	Columbus
Rogers, Ellen Chapin, Ph. B. (University of Michigan).....	Grand Rapids
Williams, Herber Oswald, B. A., 1894.....	Columbus
Young, John Wesley, B. Ph., 1899.....	Columbus



## UNDERGRADUATES—419

	Course	Course Hours	Credit Hours	Home Address
Abbott, Roy A., B. Ph.....	.....	...	...	Columbus
*Adams, Elizabeth Jane.....	Arts	126	68	Columbus
*Adams, Margaret E.....	Arts	126	58	Columbus
*Adamson, James Manley.....	L. & J.	99	15	Dayton
*Aldrich, Wesley Richard.....	L. & J.	99	17	Columbus
*Althausen, Louis Girod.....	Arts	127	...	Kenton
*Alward, Benjamin Clyde.....	E. Ph.	129	12	Pataskala
Address, Edna Alice, B. Ph.....	.....	...	...	Birmingham
*Andrews, John Davis.....	Arts	127	9	Hamilton
Armstrong, Dan Hinkle.....	Special	...	33	Jackson
Ash, Ray Charles.....	Prep. Med.	100	54	Ashland
Baldwin, Mabel Dennison.....	Special	...	13½	Columbus
*Ball, Danforth Ewers.....	Science	135	111	Columbus
*Ball, Ernestine Faye.....	Arts	127	32	Columbus
*Ballard, Marion Imrie.....	L. & J.	99	...	Canton
Barcus, Eliza, B. A.....	.....	...	...	Columbus
*Barnet, Clarence Elwood.....	Special	...	80	New Paris
*Bartram, Faith Alberta.....	L. & J.	99	22	Columbus
Bauman, Samuel.....	Special	...	31	Birmingham
Beck, Edwin Long.....	L. Ph.	126	92	Lithopolis
*Beebe, Carl Vorhees.....	L. & J.	99	3	Mt. Gilead
*Beer, James Anderson.....	Prep. Med.	100	61+20	Ashland
Beery, Harry Reber.....	Arts	127	24	Canal Winchester
Bell, Florence Louise, B. Ph.....	.....	...	...	Columbus
Bell, Mary Edith.....	Special	...	11	Columbus
*Bellows, Gertrude Halm.....	E. Ph.	128	65	Columbus
*Bigelow, Bernard Barton.....	L. Ph.	127	30	Findlay
*Bigelow, Hosea Bradley.....	Arts	127	24	Columbus
Bittner, William Pitt.....	L. & J.	98	68+2	Sandusky
Bohn, Frank, B. Ph.....	.....	...	...	Olmsted Falls
Bonnet, Alvin Cook.....	Arts	127	33	Columbus
Booth, Carl Howard.....	L. Ph.	127	25	Columbus
*Booth, Cora Vrooman.....	L. Ph.	126	52	Columbus
*Booth, George Hamilton.....	L. Ph.	127	4	Columbus
Bostwick, Homer Z., B. A.....	.....	...	...	Columbus
Bostwick, Valeria.....	Arts	126	64	Columbus
*Bower, Alice Ethel.....	E. Ph.	129	...	Worthington
*Bowles, John Porter.....	L. & J.	98	65	Columbus
Bradford, Frances Elizabeth.....	E. Ph.	129	29	Columbus
*Braun, Bertha Elizabeth.....	M. L. Ph.	127	...	Columbus
*Bridge, Effie Irene.....	Arts	127	33	Columbus
Brooks, Stanley Grange.....	Science	133	70	Columbus
Brown, Alexander Lackey.....	Special	...	...	Catlettsburg, Ky.
Brown, Jessie L. P.....	Arts	126	60	Columbus
Brown, Winfred.....	Special	...	...	Moscow
*Bryant, William Cheney.....	L. Ph.	126	65	King's Creek
*Buck, Ralph William.....	Science	132	29	Cardington
*Bulen, Elwood Joseph.....	Com. & Ad.	131	5½	Columbus
Burgess, James Henry, B. Ph.....	.....	...	...	Big Horn, Wy.

\* Preparatory work incomplete.

	Course	Course Hours	Credit Hours	Home Address
Burgess, Norman Almon.....	Prep. Med.	100	16½	Parkman
*Burkey, Charles Paul.....	Special	...	41+11	Pleasantville
*Burr, Mary .....	E. Ph.	129	29	Worthington
Butler, Blanche Woodruff.....	Arts	126	102	Wellsville
*Cannon, Anna Cathrine.....	L. & J.	98	86+11	Columbus
Carpenter, Jessie Marie.....	E. Ph.	128	66	Columbus
Carson, Nellie Eliza.....	L. Ph.	126	86	Harrisburg
Chamberlain, Robert M.....	Science	133	92	Columbus
*Chaney, James William.....	E. Ph.	128	77	Columbus
*Clagett, Arthur E.....	Science	135	66	Dayton
*Clapp, Katharine B.....	Special	...	64	Norwalk
*Clevenger, Charles Henry.....	Science	131	55+19	Fletcher
*Clevenger, Joseph Franklin.....	Science	131	57	Fletcher
*Coad, James Earl.....	L. Ph.	127	12	St. Lewisville
*Coates, Elmer William.....	Arts	127	25	Pomeroy
Cockerill, Orville Porter.....	Special	...	75	Washington C.H.
*Coe, Bertha L.....	Special	...	12	North Columbus
Cole, Fred .....	M. L. Ph.	127	18½	Zanesville
Colgan, Lillian Katharine.....	Special	...	71	Columbus
Collins, Walter Scott.....	Arts	126	95	Columbus
*Compton, Edward Cass.....	L. & J.	99	27+12	Coshocton
*Connolley, Augusta .....	L. Ph.	126	72	Columbus
Connor, Alice Marie, B. Ph.....	.....	...	...	Columbus
Connor, Ellen Josephine, B. Ph.....	.....	...	...	Columbus
*Connors, John Leo.....	L. & J.	99	14	Columbus
Cooke, Levi .....	Arts	127	20	Columbus
*Corkery, Thomas Jefferson.....	Arts	127	25	Toledo
Corner, Edith .....	L. Ph.	127	87	Columbus
Cottom, Frank W.....	Prep. Med.	100	59+6	Dayton
Courtright, Elizabeth Pauline.....	Arts	128	107	Columbus
Courtright, J. Loring, B. A.....	.....	...	...	Circleville
Courtright, Stella Van.....	L. Ph.	126	96	Columbus
Coy, William Stacey.....	Arts	127	30	Columbus
Craig, Francis Miron.....	Special	...	25	Clarion
*Cunningham, Charles Gilman.....	E. Ph.	128	103	Fostoria
*Davidson, Harold Glenn.....	L. & J.	99	20	Dayton
*Davidson, Ruth Emily.....	E. Ph.	129	23½	Chicago, Ill.
*Davis, William Edgar.....	Arts	128	64	Columbus
Dean, Wilbur Spencer.....	Special	...	97	Warsaw
*Dean, Ethel Sourbray.....	L. & J.	99	41	Columbus
*DeNune, Ethel .....	Arts	126	58	Columbus
Derby, Alice G.....	L. Ph.	126	101	Columbus
Dickinson, George Codwice.....	Arts	126	89	Columbus
*Diehl, William Ross.....	E. Ph.	129	...	Columbus
Dill, Augusta Dille, B. Ph.....	.....	...	...	Columbus
Dollison, Harvey Clinton, B. Sc.....	.....	...	...	Zanesville
*Dolson, Benjamin Reimmund.....	L. & J.	99	25	Lancaster
Donovan, Dennis Aloysius.....	E. Ph.	128	78	Columbus
Dow, Mary Edna.....	Special	...	...	Bellefontaine
Dowd, Charles Fuller, B. Ph.....	.....	...	...	Toledo
Dubois, Wilbur L., B. Sc.....	.....	...	...	Cincinnati

\* Preparatory work incomplete.

	Course	Course Hours	Credit Hours	Home Address
Dufour, Alice .....	Special	...	93	Columbus
Durbin, Samuel Clyde.....	E. Ph.	128	100	McConnelsville
Dyer, Clarkson Werter.....	Arts	127	25	Plano
Eagleson, John Hervey, B. A.....	.....	...	...	Columbus
Eagleson, Joseph Pentecost, B. A.....	.....	...	...	Columbus
*Eastman, Katharine .....	L. Ph.	127	27	Columbus
Easton, Ernest Doane.....	B. Sc.	129	77	Springboro
*Ebright, Bessie .....	E. Ph.	129	17	Columbus
Edwards, Norma .....	Special	...	27	Columbus
Eisenbise, Bertha, B. Ph.....	.....	...	...	Columbus
Enderlin, Louis Charles.....	Special	...	...	Allegheny, Pa.
Ewalt, Clara Converse.....	E. Ph.	130	100	Columbus
*Farrar, Morton .....	L. Ph.	127	...	London
*Ferenbaugh, Burchard Blaine.....	Arts	127	33	Buckeye City
*Fink, Henry Emil.....	L. & J.	99	30	New Bremen
Fisher, Ida May, B. Ph.....	.....	...	...	Columbus
Follett, Mary Pelton.....	L. Ph.	127	33	Columbus
Foster, Asa Emmanuel.....	Arts	126	58	New Salem
Fox, Ross Garfield, B. Ph.....	.....	...	...	Columbus
Frederick, Albert Augustus.....	Special	...	...	Millersburg
French, Louis Vincent.....	E. Ph.	129	22	Jefferson
*Fullerton, Rutherford .....	L. & J.	99	33+3	Columbus
*Game, Francis Harvey.....	E. Ph.	128	60	Canal Winchester
Gamper, Hattie, B. Ph.....	.....	...	...	Columbus
Gardner, Blanche .....	Arts	127	...	Columbus
Garman, Susan Editha.....	E. Ph.	131	41	Dayton
Gauch, James Arlando.....	Arts	126	64	West Manchester
Gayman, Charles Welton, B. Ph.....	.....	...	...	Canal Winchester
Ginder, Floyd Edwin.....	Prep. Med.	100	25	Lancaster
*Godman, Leroy Hayes.....	L. & J.	98	57	Columbus
*Gordon, Earl Augustus.....	Prep. Med.	100	34	Junction City
*Gordon, Sarah Bryarly.....	Special	...	86	St. Mary's
*Gorham, Ira Garfield.....	Arts	126	44	Perrysville
*Graham, Reuben Jacob.....	E. Ph.	128	77	Northup
Greener, Gussie Howe.....	L. Ph.	126	102	Columbus
Griggs, Robert Fiske.....	Science	130	41	Columbus
Guittard, Claude B.....	M. L. Ph.	126	41	New Bedford
Haecker, Christofer Frederick.....	Special	...	31	Sandusky
Hagenbach, George Edwin.....	L. Ph.	127	25	Urbana
Hahn, George Philip.....	Com. & Ad.	131	33	Napoleon
Hambleton, Ethel Ada.....	L. Ph.	126	91	Columbus
*Hambleton, Charles Reverdy.....	E. Ph.	129	2½	Hooksburg
*Hammond, Harvey George.....	L. & J.	99	...	Millwood
*Harbine, Sarah Smith.....	E. Ph.	129	41	Xenia
*Hard, Ansel Shallcross.....	L. & J.	99	22½	Bowling Green
Hardy, Caroline Church.....	Special	...	48	Columbus
Harward, Arthur Byron, B. A.....	.....	...	...	Columbus
Hatcher, Wesley .....	Special	...	...	Raymond
*Hauk, Will Comrie.....	Arts	126	101	South Charleston
Heitman, William L.....	Science	132	29	New Bremen
Henderson, Herbert B.....	Special	...	91	Laceyville

\* Preparatory work incomplete.



	Course	Hours	Credit	Home Address
	Course	Hours	Hours	
Hensel, Donald Dean.....	Com. & Ad.	131	69	Eaton
Herrick, Sara Ethel.....	E. Ph.	128	83	Wellington
*Herrman, Bessie.....	E. Ph.	128	69	Worthington
Hertlein, Alice Kelley.....	Special	...	6½	Sandusky
*Hicks, Blanche.....	L. Ph.	129	27	Centerburg
Hicks, Nellie.....	Arts	128	99	Centerburg
*Hickey, Thomas Owen.....	Prep. Med.	100	...	Caylick
Hirsch, Rudolph.....	Science	133	91	Columbus
Hite, Bertha.....	Special	...	14	Columbus
Hoffmann, Hattie DeLong, B. Ph. ....	.....	...	...	Columbus
*Holcomb, Harry John.....	Arts	128	90	Columbus
*Hommon, Harry Britton.....	E. Ph.	129	17	Marble Cliff
Honline, Mose A.....	Special	...	50	Columbus
Hopkins, Bertha Marie.....	L. Ph.	126	64	Columbus
Hopkins, Clara M.....	L. Ph.	126	61	Columbus
Hopkins, Edith Estelle.....	L. Ph.	126	65	Columbus
Houghton, Henry Spencer.....	Special	...	99	Columbus
Howard, Anna Faye, B. Ph.....	.....	...	...	Columbus
*Hubbard, Desha Darling.....	L. Ph.	127	19	Columbus
Huddleson, Mabel Lee.....	Special	...	9	Columbus
Hudson, Clara Putnam.....	E. Ph.	128	58	Middleport
Huling, Frank.....	Arts	127	26½	Columbus
Humphrey, Stella Hale.....	Special	...	40½	Peninsula
Hungelmann, Arthur.....	Science	129	74	Columbus
*Hunt, Mary Fulton.....	L. Ph.	126	90	Columbus
Hunter, Anna Eliza.....	M. L. Ph.	126	66	Columbus
*Hunter, Joseph Symmes.....	Arts	126	87	Seven Mile
Hurst, Louise Kate.....	Special	...	17	Piketon
*Huston, Frank Arilda.....	M. L. Ph.	126	87	Columbus
*Jacoby, Benjamin.....	Science	130	33	Marion
*Jacoby, Ethelwyn.....	Arts	127	22	Columbus
Jacoby, Mrs. S. C.....	Special	...	17	Columbus
Jaynes, Allan Brown, B. Ph.....	.....	...	...	Columbus
Jeffrey, James Fred, B. Sc.....	.....	...	...	Columbus
Jefferey, John Ralston.....	Special	...	80	Huron
*Jennings, Elma.....	M. L. Ph.	126	65	Eaton
*Jones, Daniel C.....	E. Ph.	128	60	Jackson
*Jones, Gilbert Haren.....	Arts	127	27½	Columbus
*Jones, John William.....	E. Ph.	128	87	Jackson
Jones, Richard Thomas, B. Ph.....	.....	...	...	Columbus
Jones, Victor Waite.....	E. Ph.	128	88	Columbus
*Jordon, Homer Garfield.....	Arts	127	22½	Columbus
*Justice, Charles Lloyd.....	Arts	126	22	Leipsic
Karshner, George Melville, B. A.....	.....	...	...	Columbus
Kauffman, Margaret Glenn.....	M. L. Ph.	126	78	Columbus
Kauffman, Henrietta Christine.....	M. L. Ph.	126	92	Columbus
Keiser, Forest Le Grand.....	Science	130	22	Bryan
Kennedy, Herbert Welles.....	E. Ph.	128	...	Coe Ridge
Kerr, May Lizzie.....	E. Ph.	129	25	Rushville, Ill.
*Kimball, Mabel Fawn.....	E. Ph.	129	19½	Woodstock
Kinder, Gordon Donald, B. Ph.....	.....	...	...	Ottawa

\* Preparatory work incomplete.



	Course	Hours	Credit Hours	Home Address
King, Bernice .....	Arts	126	48	Columbus
Kirk, George Barlow.....	Arts	126	82	Columbus
Klein, David, B. Ph.....	.....	...	...	Columbus
Knight, Caroline Estell, B. Ph.....	.....	...	...	Columbus
Knight, Margaret Amanda.....	Special	...	28	Columbus
Kohl, Clayton Charles.....	L. Ph.	126	90	Perryburg
*Kohr, Paul Homer.....	Arts	127	26½	Columbus
Lambert, Elza Jay.....	Special	...	33	Plantsville
Latimer, Thomas Erwin.....	L. & J.	99	25+3	Hilliards
*Lawrence, Osa Alonzo.....	M. L. Ph.	127	37	Oxford
*Leeper, Charles .....	E. Ph.	129	3	
*Lentz, Florence .....	M. L. Ph.	126	80	Marysville
Leonard, Hannah Margaret.....	L. Ph.	127	19	Columbus
†*Lincoln, Elsie .....	E. Ph.	129	17½	Woodstock
Lisle, Charles Howard, B. Ph.....	.....	...	...	Pataskala
Lisle, Thomas G.....	Com. & Ad.	131	22	Columbus
Long, Mila Myrtle.....	Special	...	2½	Columbus
Loren, Mary .....	Special	...	40	Columbus
*Loughrey, John Larison.....	L. & J.	99	15½	Marysville
Luse, Jessie Edna.....	E. Ph.	128	99	Columbus
Lyon, Maud Eliose.....	Special	...	29	Westfield, N. Y.
MacAdam, Lida Allison.....	Special	...	8	Worthington
Mack, Egbert Hiram.....	E. Ph.	129	30	Sandusky
Mark, Mary Louise.....	Arts	127	35	Columbus
Marriott, Robert Henry.....	Science	129	89	Richwood
*Martin, Franklin Ewing.....	L. Ph.	127	7	Columbus
Martin, William Kooken.....	L. Ph.	127	25	Lancaster
Martz, Velorus .....	Arts	126	103	Columbus
*Matthews, Max Moses.....	E. Ph.	129	49	Vinton
Mayfield, Victor Hugo.....	Special	...	3	Prospect
Meade, Caroline Annis.....	M. L. Ph.	126	78	Columbus
Merkle, Albert Edward.....	Prep. Med.	100	31	Chillicothe
*Merrick, Lawrence Hildreth.....	Arts	127	22½	Zanesville
*Miesse, Frank H.....	L. Ph.	127	49	Chillicothe
Miller, Albert Morris.....	Special	...	22	Columbus
*Miller, Charles Reed.....	E. Ph.	128	57	Bellville
Miller, Fred A.....	E. Ph.	128	104	Columbus
Miller, Gretchen Pauline, B. Ph.....	.....	...	...	Columbus
*Miller, Paul Scott.....	Science	130	24½	Marion
Mills, Donald P.....	Special	...	36	Norwalk
Mitchell, Lynn Boal.....	Arts	127	41	Piqua
Mitzenberg, Allena May.....	L. Ph.	126	94	Columbus
Mitzenberg, Fannie Katheryn.....	L. Ph.	127	33	Columbus
Mock, Marcia Inez.....	L. Ph.	126	102	Columbus
Malloy, Mary Aloysia.....	L. Ph.	127	25	Sandusky
Maloney, William Patrick.....	Special	...	72	Prospect
Moon, Clarence Victor, B. Ph.....	.....	...	...	Farmer's Station
Moore, Clarence L. E.....	Science	129	98	Washington C. H.
Moore, Edgar Howard, B. Sc.....	.....	...	...	Columbus
*Morgan, Roy .....	E. Ph.	128	70	Greenland
Morse, Max Withrow.....	Science	130	27	London

† Died March 13, 1900.

\* Preparatory work incomplete.

	Course	Hours	Credit	Home Address
Morton, Max De Los.....	Special	...	33	Ashtabula
*Muirie, Frederick John.....	Arts	126	61	Youngstown
Mull, Ernest Clinton.....	L. & J.	99	30	Lebanon
Mumma, Marion W.....	Science	133	108	Dayton
McAllister, Earl Saddler.....	E. Ph.	128	86	Columbus
McAlpine, Maude A.....	Special	...	12	Columbus
McCallum, Raymond, B. Ph.....	.....	...	...	Dayton
McDonald, Joseph Sylvester.....	E. Ph.	128	98	Rendville
McDowell, James Keen.....	L. Ph.	127	41	Columbus
*McGugin, Elizabeth Winifred.....	Arts	127	45	Ohio Furnace
*McKinley, Mary Ann.....	L. Ph.	127	19½	Trinway
McKinney, Frank C.....	Arts	126	108	Columbus
McPherson, Clarence Githeus.....	Science	130	...	Xenia
*McQuigg, Charles Wesley.....	L. & J.	99	15+8	Pomeroy
*Nachtrieb, Clarence R.....	L. Ph.	127	22½	Wauseon
Nash, Simeon .....	Arts	126	103	Columbus
*Needles, Ada Ruckle.....	Science	129	38	Groveport
Neiswender, Lisle W.....	Prep. Med.	100	68+2	Grove City
Nichols, Ada May.....	M. L. Ph.	126	68	Chillicothe
*Nida, William Lewis.....	E. Ph.	128	92	Lincoln
Norris, John S.....	M. L. Ph.	126	80	Columbus
*O'Brien, Charles Francis.....	L. & J.	99	33	Urbana
*Orndorf, Earl Luther.....	E. Ph.	129	35	Wauseon
*Ortman, Earl Hill.....	L. Ph.	127	25	New Salem
Orton, Samuel Torrey.....	Science	133	83	Columbus
Osborn, Abner Andrews, B. Sc.....	.....	...	...	Columbus
Parmenter, William Watt, B. A.....	.....	...	...	Mt. Vernon
Parsons, George McLellan.....	L. Ph.	126	98	Columbus
Patterson, Bertha Gildersheve.....	Arts	126	105	Columbus
*Pavlicek, Frank J.....	L. Ph.	126	85	Toledo
*Peoples, Emmet W.....	Arts	126	21	Pomeroy
Pitts, Grace Lenore, B. Ph.....	.....	...	...	Columbus
*Plum, Harley Martin.....	Arts	126	67	Ashville
Plummer, Alice Greenwood.....	Special	...	17½	Columbus
*Pocock, Lucy Hunt.....	E. Ph.	128	68	Columbus
Porter, George Henry.....	L. Ph.	126	98	New Philadelphia
*Postle, Carlton David.....	Prep. Med.	100	33+6	Alton
Postle, Carl Haldy.....	Com. & Ad.	131	17	Columbus
Potts, Beulah Josephine.....	Arts	127	29	Columbus
*Potts, Helen Georgiana.....	Special	...	32	Columbus
Powell, Blanche .....	Special	...	...	Mt. Cory
*Powell, Cornelia .....	Arts	127	60	Columbus
*Powell, Raymond Thompson.....	L. Ph.	127	6	Columbus
*Pratt, Edna Stuart.....	Arts	127	...	Columbus
Pulling, Margaret Glaze, B. Ph.....	.....	...	...	Columbus
Pumphrey, Josiah Merton.....	Prep. Med.	100	64	Martinsburg
*Rathburn, James Irwin.....	Prep. Med.	100	16	Gallipolis
*Raymond, Maybelle .....	E. Ph.	128	77	Columbus
*Raymond, Stockton .....	L. Ph.	127	22	Columbus
Redrow, Clara M.....	M. L. Ph.	126	50	Williamsburg
Redrow, Walter Leffingwell, B. Sc....	.....	...	...	Williamsburg

\* Preparatory work incomplete.

	Course	Course Hours	Credit Hours	Home Address
Rees, Edith Celeste.....	Arts	126	104	Columbus
*Reese, David R.....	Arts	126	94	Shawnee
Reinhard, Frank J., Jr.....	E. Ph.	128	40	Columbus
Reütinger, Ernest Victor.....	Prep. Med.	100	62+8	Chillicothe
Rice, Mary Washington, B. A.....	.....	...	...	Columbus
Rickard, Alexander .....	Special	...	5	Columbus
Rickey, Tallmadge Archer, B. Ph.....	.....	...	...	Columbus
*Ridenour, Walter Ashton.....	L. & J.	98	52+13	Jackson
*Robinson, John Fletcher.....	Prep. Med.	100	26+5	Columbus
*Rockey, Noble Warren.....	E. Ph.	129	21	Dayton
*Rodebaugh, Mabel Mary.....	M. L. Ph.	127	22	Marysville
Roebuck, Carl Fletcher, B. Ph.....	.....	...	...	Dalton
Roekel, Frederick Augustus.....	Prep. Med.	100	27	Zanesville
Roney, Mary Malvina.....	L. Ph.	126	103	Columbus
Ruebesh, Joseph Keiffer.....	Special	...	31½	Dayton
*Rushton, Norman .....	Com. & Ad.	131	56	Selkirk, Ontario
*Sadler, Anna Belle.....	L. Ph.	126	74	Columbus
Salm, Edna Esther.....	L. Ph.	127	39	Columbus
Sayre, Charles Boyd, B. A.....	.....	...	...	Columbus
Schaff, Mae B., B. Ph.....	.....	...	...	Columbus
*Schantz, Albert J.....	Science	135	66	Dayton
Schilling, Emelia Jahana.....	Special	...	10	Columbus
*Schneider, Earnest True.....	L. & J.	99	25½	Dayton
Schoedinger, Ferdinand P.....	Arts	126	74	Columbus
*Schönthal, Derso Clarence.....	E. Ph.	128	60	Columbus
Scott, Dudley, B. Ph.....	.....	...	...	Columbus
*Seymour, Edith Lillian.....	Arts	127	27	Columbus
Seymour, Raymond Jesse, B. Sc.....	.....	...	...	Columbus
*Schaeffer, Ray .....	Arts	127	19½	Coshocton
*Shaw, Harry R.....	E. Ph.	128	85	Zanesville
*Sherman, Richard Jay.....	Arts	127	35	Toledo
Shigley, Anna B.....	Special	...	29	Jamestown
Simpson, Warner Pike.....	Prep. Med.	100	34	Worthington
Singleton, Charles T., B. Ph.....	.....	...	...	Columbus
Smith, Albertine Charleen, B. Ph..	.....	...	...	Columbus
*Smith, Harold Osborn.....	L. Ph.	126	64	Columbus
Smith, Lida May.....	Special	...	1	Columbus
Smith, Ralph Harvey.....	Prep. Med.	100	19	Columbus
Smith, Stanley Robb.....	Special	...	18	Columbus
Smith, Virginia Roletta, B. Ph.....	.....	...	...	Columbus
*Snyder, Henry Williams.....	E. Ph.	129	24½	Ironton
Souder, Charles Granville.....	Science	130	5½	Logansport, Ind.
*Southwick, Myrtle Minerva.....	E. Ph.	129	16	Kendallville, Ind.
*Southworth, Ruth .....	E. Ph.	129	27	Columbus
Sperry, Wilmot, Jr.....	E. Ph.	128	91	Mt. Vernon
Sproat, Martha Evans.....	L. Ph.	127	37	Columbus
*Staley, Homer F.....	Arts	126	48	Columbus
Stephenson, Bertram Sheaver.....	L. Ph.	126	96	Jackson
*Stevenson, Ray David.....	Special	...	62	Fostoria
*Steward, James Clarence.....	E. Ph.	129	29	Marcy
*Stewart, George Francis.....	L. & J.	99	9½	Coshocton



	Course	Hours	Credit	Home Address
	Course	Hours	Hours	
*Stewart, Gilbert H., Jr.....	L. & J.	98	47	Columbus
Stimson, George, B. A.....	.....	...	...	Columbus
*Stults, Newton Delano.....	E. Ph.	129	...	Fremont
Sullivan, Oscar M.....	Arts	126	72	Columbus
Swaney, Sara C.....	L. & J.	98	61+1	East Liverpool
*Swift, Samuel Ferguson.....	E. Ph.	128	47	Jackson
*Tarbill, John Wesley.....	Arts	126	114	Atlanta
*Tatje, Oral D.....	Prep. Med.	100	34	Columbus
Taylor, Bessie Battelle.....	L. Ph.	126	70	Columbus
*Taylor, Mary Hill.....	L. Ph.	127	33	Columbus
*Taylor, William Harry.....	E. Ph.	128	74	Columbus
Teter, Sumner .....	Science	129	63	Columbus
*Teter, Millicent .....	M. L. Ph.	127	12	Columbus
Thomas, Lawrence David, B. Ph.....	.....	...	...	Lancaster
Thomas, Robert Park.....	Special	...	...	Kennard
*Thompson, King Gibson.....	Special	...	74	Georgetown
*Thompson, Roy Washington.....	L. Ph.	127	27	Gallipolis
Tietjens, Otto .....	Com. & Ad.	131	...	Napoleon
Tilden, Samuel Jay.....	Special	...	28½	Garrettsville
*Tilton, Josephus Howard.....	E. Ph.	128	110	Jelloway
Timberman, Andrew .....	Special	...	...	Columbus
Tipton, Robert .....	Special	...	...	Milo
Trauger, Bertha Elizabeth.....	Special	...	6	Columbus
Trauger, Clara Salome.....	Special	...	7	Columbus
Travis, Fred L., B. A.....	.....	...	...	Pana, Ill.
Travis, John F., B. A.....	.....	...	...	Green Camp
Türcke, Therese .....	Special	...	12	Columbus
Turner, Bertha Louise.....	M. L. Ph.	126	38	Columbus
Turner, Lucile E.....	Special	...	...	Columbus
*Ulsamer, Fritz Martin.....	M. L. Ph.	127	5½	Gallipolis
*Veach, Esther Louise.....	E. Ph.	129	23½	Newark
Vinson, Albert E.....	Special	...	116	Dayton
Wagner, Charles John.....	Special	...	13	Belle Centre
Wallace, William Garvey.....	Special	...	...	Bellefontaine
Walsh, Frances Lyon.....	Arts	126	40	Columbus
Walters, Barton .....	Special	...	32	Circleville
Ward, Annette Persis.....	Special	...	26	Columbus
*Ward, Lila Lucile.....	L. Ph.	126	90	Reynoldsburg
*Warner, John Howell.....	Arts	127	25	W. Shelby, N. Y.
Wagh, Helen Grace.....	L. Ph.	129	16	Bowling Green
*Weaver, Mima Jacobs.....	E. Ph.	131	41	Dayton
Weber, Sophia Frances.....	Special	...	31	Columbus
Weick, Carrie Rosina.....	Science	129	104	Columbus
Weld, Harry Porter, B. Ph.....	.....	...	...	Marysville
*Weller, Charles Ralph.....	L. Ph.	127	...	Portsmouth
Welling, Faith Cornelia.....	Arts	126	94	Worthington
*Wells, Byron Bliss.....	Science	129	59	Ostrander
*Wells, Harry B.....	Arts	126	40	Columbus
West, Earle Downs, B. A.....	.....	...	...	Columbus
Whetsel, James Anderson Garfield....	Arts	127	30	Columbus
*Whitaker, William Earl.....	E. Ph.	128	99	Wauseon

\* Preparatory work incomplete.



	Course	Coursé Hours	Credit Hours	Home Address
*White, Carroll Agnew.....	L. Ph.	126	45	Marysville
Whiteside, John Wesley.....	E. Ph.	128	93	Bloomingsburg
Wilkinson, John Anderson.....	L. Ph.	127	33	Piqua
*Williams, Anna Florence.....	E. Ph.	129	26	Jackson
Williams, Clara Maude, B. Ph.....	.....	...	...	Columbus
Wilson, Charles Robert.....	L. & J.	99	26	Circleville
*Wilson, Willard Aleck.....	Com. & Ad.	131	25	Columbus
Wing, Lucius Arthur.....	Science	130	35	Columbus
*Woods, William Burroughs.....	L. & J.	99	36+3	Garrettsville
Wright, Nellie .....	E. Ph.	128	80	Worthington
Yoder, Harvey Elmer.....	Special	...	11	North Industry
*Young, Claude Burnett.....	L. Ph.	127	27	West Rushville
*Young, Mary Grace, B. Ph.....				Mt. Vernon

\* Preparatory work incomplete.

## COLLEGE OF ENGINEERING

### GRADUATE STUDENTS — 11

	Course	Home Address
Edwards, Clarence J.....	Cer. S.....	Newberg, Ore.
B. S. Pacific College.		
Ford, Nile Otis.....	E. M.....	Wheeling, W. Va.
A. B. Washington and Jefferson.		
Grate, Charles A.....	M. E.....	Yale.
M. E. Ohio State University.		
Groves, John Wesley.....	E. M.....	Batavia.
C. E. Ohio State University.		
Hale, Frederick James.....	M. E.....	Mogadore.
M. E. Ohio State University.		
Ludlow, Stephen H.....	*Cer .....	Union City, Ind.
B. S. Albion College.		
McIntire, Alfred Heber.....	M. E.....	Mt. Vernon
E. E. Ohio State University.		
Schlochtermeyer, Carl Fred.....	E. E.....	Cincinnati
A. B. St. Xavier College.		
Somermeir, Edward Everett.....	E. M.....	Westwood
G. Ph. Ohio State University.		
Williams, Ira A.....	*Cer .....	Ames, Iowa
B. S. Iowa State College.		
Wynne, Francis Edmund.....	E. E.....	Bethany, W. Va.
B. A. and M. A. Bethany.		

\* Pursuing a special course.

## UNDERGRADUATES — 394

	Course	Course Hours	Credit Hours	Home Address
Albin, Carl .....	E. E.	219½	52	Columbus
Alford, Arthur Milton.....	M. E.	22	138+4	Windham
*Ames, Holiday .....	C. E.	209	34+3	Ashland
*Archer, Carl Hunter.....	E. E.	219½	...	Columbus
Armstrong, Hugh Cook.....	E. E.	219½	43½+3	Clintonville
Arndt, Mrs. Mary Korst.....	Special	...	2	Columbus
*Arnold, Charles H.....	M. E.	222	91	New London
Bahrke, Charles Frederick.....	I. A., S.	96	35	Columbus
Eailey, Ervin George.....	E. E.	218	92	Damascus
*Bailey, Edward Harding.....	†M. E.	...	66	Damascus
*Bailey, Purdy Sanford.....	C. E.	210½	29½+5	Warren
*Baker, Charles Carroll.....	E. E.	219½	...	St. Paris
*Balz, Ernest .....	C. E.	209	98	Columbus
*Balz, Louis Christian Fred.....	C. E.	209	98	Columbus
Barker, Russel David.....	M. E.	223½	43½	Brooklyn, N. Y.
Barlow, Moses Henry.....	C. E.	209	159	Columbus
*Barringer, John Martin.....	Chem.	202	136	Washingt'n, D.C.
Parringer, Lawrence Eugene.....	Cer.	211	170+5	Washingt'n, D.C.
*Barry, William John.....	C. E.	209	78	New Straitsville
*Battenfield, John Milton.....	E. E.	218	68½	Delaware
*Baughman, Norman .....	E. E.	219½	42	Roseville
Baumann, John Carl Bernhardt.....	†Min'g, S.	...	59+21	Gütersloh, Germ.
*Bauroth, Walter John.....	M. E.	222	83	Springfield
Beard, Frank Andrew.....	I. A.	222	38	Jacksontown
*Bedwell, Charles Francis.....	E. E.	218	46	Columbus
Benbow, James D.....	I. A., S.	96	47	Milo
Berndroth, Geary Martin.....	M. E.	223½	45	Geneva
*Berry, Charles Watson.....	E. E.	219½	19	Columbus
Besse, Thomas Samuel.....	E. E.	219½	...	Pataskala
*Bigelow, Clarence C.....	E. M.	208	103½	Findlay
Billingsley, Robert Wallace.....	M. E.	222	99	Lisbon
*Bleininger, Albert Victor.....	†Chem.	...	126+31	Columbus
Boehme, Adolph Joe.....	M. E.	222	157+3	Youngstown
Bomesberger, Walter Nelson.....	E. E.	219½	45½+5	Columbiana
Boothman, Dale Maxwell.....	M. E.	223½	55½	Bryan
*Bostwick, Oliver Newton.....	C. E.	209	93	Mt. Sterling
Bott, George Robert.....	M. E.	222	156	Columbus
Bowden, Harry William, C. E.....				Minerva
*Boynton, Henry Percy.....	E. M.	209½	14½+1	Elyria
Bradshaw, Eugene Bingham.....	Special	...	...	East Liverpool
*Bramble, Bennett Glenn.....	Chem.	209½	...	Bellefontaine
Brannan, Thomas Hayes.....	C. E.	210½	42+3	Marysville
*Brashear, Edward Rosemond.....	C. E.	210½	54½	Columbus
*Bridinger, Leon A.....	E. M.	209½	22½	Tiffin
*Britton, William Miller.....	E. E.	219½	28+13	Columbus
Britton, Lloyd C.....	C. E.	209	88	Williamsburg
Brooks, Herbert Barton.....	E. E.	218	111+6	Piqua
Buchenberg, Alvin Ernest, M. E. in E. E..	.....	...	...	Holgate

† Pursuing a special course.

\* Preparatory work incomplete.

	Course	Hours	Credit Hours	Home Address
Burch, Orrin .....	E. E.	218	63½	Columbus
Buydden, Wade Jennings, Jr.....	E. M.	209½	7	Dayton
*Cameron, James L.....	Arch.	217½	47½+2	Malvern
Cameron, Harry Ezra.....	C. E.	209	159	Lisbon
Cameron, Gaylor Malcomb.....	E. E.	219½	41	Jeromeville
Campbell, Willis Elmer.....	Chem.	208	92	Fostoria
Campbell, Rolo Wilbur.....	C. E.	209	53	Fostoria
Cannan, William .....	†Cer.	...	75	Plymouth
*Carmichael, Robert .....	M. E.	223½	29	Columbus
*Carr, William Brewster.....	E. E.	219½	...	Yellow Springs
Cartzdafner, Roy Edwin.....	M. E.	223½	53	London
*Caskey, George Alexander.....	M. E.	222	96	Columbus
Cavanaugh, Andrew Francis.....	M. E.	...	...	Dayton
*Cavin, Frank Thomas.....	E. E.	218	116	Spencer
*Chaffin, Wendel Wilson.....	C. E.	209	57+12	Dayton
*Chamberlain, John Ross.....	C. E.	209	56	Tiffin
Chandler, Homer Payne.....	E. E.	218	95+13	Columbus
*Chandler, William H.....	C. E.	210½	...	Bellefontaine
Chenoweth, Howard .....	†E. E.	...	56	Range
Childs, Harry Jesse.....	C. E.	210½	21½+6	Troy
Chubb, Joseph Horace.....	C. E.	210½	47	Columbus
Clarke, James Ulrick.....	E. E.	218	111	Lancaster
Colgan, Frank J.....	Cer., S.	90	30+52	Columbus
Conrad, Vern Louis.....	C. E.	209	104+6	Columbus
*Cook, Spencer Nye.....	E. M.	208	50½	Chillicothe
*Cooke, Royal Alstan.....	E. E.	219	132+10	Wyoming
Cooley, James Riddle.....	E. E.	219½	50½	Nelsonville
Cooper, Ralph McClelland.....	I. A., S.	96	15	Struthers
*Copland, James Samuel, Jr.....	†M. E.	...	7	Dresden
Cosley, Harvey Harter.....	C. E.	209	154	Troy
Crabill, Pearl P.....	†M. E.	...	86	Springfield
Crable, Arthur .....	C. E.	209	180+5	Columbus
Crable, George .....	E. M.	208	107	Columbus
Creed, Frank Roy.....	Mining, S.	91	27	Struthers
Cridland, Harry Clifford.....	E. E.	219½	55½	Dayton
Crooks, Thomas Elliott.....	E. E.	219½	55½	Van Wert
Cryder, Howard Michael.....	Arch.	215	69	Chillicothe
Cryder, Ross Warner.....	E. E.	219½	35½	London
Damon, Owen H., C. E.....	.....	...	...	Hinckley
*Dann, Walter M.....	E. E.	218	112	Columbus
Darrah, John Francy.....	E. E.	219	31½+2	Toronto
Davison, Holmes Bergen.....	Cer., S.	90	...	South River, N.J.
*Day, Stanley Frank.....	E. E.	219½	9½	Columbus
*Denmead, Edward Graham.....	M. E.	223½	32+3	Columbus
*Denny, Charles Wampler.....	E. E.	219	136	Middletown
DeWolf, Roger Dennison.....	E. E.	219	164+2	Madison, Ga.
Dick, Owen Quinton.....	I. A., S.	96	33+4	Marshall
Dickenson, Morris L.....	†I. A.	...	...	Columbus
*Diehl, Joseph A.....	C. E.	209	81+8	Defiance
*Dierdorff, Percy Cyrus.....	M. E.	222	70	Columbus
Dill, Raymond .....	E. E.	219	162+3	Columbus

† Pursuing a special course.

\* Preparatory work incomplete.

	Course	Hours	Credit Hours	Home Address
*Doty, Charles Wilgerson.....	E. M.	209½	11+5	Hanging Rock
Drummond, William George, M. E....	.....	...	...	Cleveland
Dunlop, Robert Rowse, M. E. in E. E.	.....	...	...	Columbus
*Dupuy, Benjamin Francis.....	C. E.	210½	52½+8	Ironton
*Ecker, Harrison Grant.....	E. E.	218	53½	Columbus
*Edgerly, Raymond John.....	C. E.	210½	39½+6	Pataskala
*Elliott, Emmett Foster.....	Arch.	215	103	Chester Hill
Elsner, Richard E.....	C. E.	209	61+4	Newark
Emswiler, John Edwin.....	E. E.	219½	54½	Morgan Center
Erdmann, William .....	I. A.	201	191+10	Chillicothe
Escobar, Raphael .....	†Min'g, S.	...	22	Puerto Principe,
*Espy, Frank .....	†E. E.	...	104	Kenton [Cuba
Euchenhofer, Albert John.....	E. E.	219½	39	Dayton
Evans, Charles Hopkins.....	Mining, S.	91	45	Evanston
*Evans, William Ruthrauff.....	M. E.	223½	...	Salem, Va.
*Eysenbach, Louis, Jr.....	Ceramics	214½	51½	Delphos
*Faukner, Eldridge Rhodes.....	E. M.	209½	9½	Tippecanoe City
Faulkner, Samuel Starrett.....	E. E.	219½	...	Troy
*Fay, Sherman .....	M. E.	223½	55½	Wyoming
Fickes, Walter M., E. M. in Ceramics..	.....	...	...	Steubenville
Fleming, Joseph Hamilton.....	C. E.	209	99+24	Olentangy
Follett, George Alfred.....	C. E.	209	83+17	Columbus
Foster, George C.....	E. M.	208	107+2	Schooley
Foster, Vause .....	E. M.	209½	51½	Higby
*Fox, Lewis .....	C. E.	210½	26½+6	Payne
Frame, Rollo St. Clair.....	C. E.	209	159	Washington
Frankenberg, George T.....	M. E.	222	109	Columbus
Frechtling, Arthur George.....	M. E.	222	166+4	Hamilton
Freer, Will Davis.....	Cer.	211	49+4	Cortland
*Friedland, Francis William.....	M. E.	222	64½	Coalton
Frost, George Winfield, M. E.....	.....	...	...	Columbus
Fulton, James Stewart.....	M. E.	223½	55½	Steubenville
*Funk, Leo William.....	M. E.	223½	41½+5	Chester Hill
Gates, Ellis Day.....	Cer., S.	90	45+25	Hinsdale, Ill.
Geren, Arthur G.....	Mining, S.	91	33+10	Columbus
Gilchrist, Edward Luce.....	E. E.	218	76	Ashtabula
*Gleichauf, Frank S.....	Arch.	215	103	Newark
*Goodell, Frank Herbert.....	Chem.	211	93	Columbus
*Gould, William Stewart.....	M. E.	223½	50½	Wyoming
*Gray, Thomas M.....	M. E.	223½	30	Pittsburg, Pa.
Green, Homer Stewart.....	E. E.	218	122	Raymond
Grindel, Charles Stanton .....	E. E.	219½	39½	Jacksontown
Hager, LeRoy William.....	C. E.	209	132	Piqua
*Hall, Robert Gilbert.....	E. M.	209½	21	Dayton
Halsema, Eusebius J.....	C. E.	210½	52+4	New Bremen
Halverstadt, Herbert .....	Cer.	214½	34½	Columbiana
Hamilton, Ross Elroy.....	C. E.	210½	52	Keene
Hammond, John Miller.....	C. E.	209	104+2	Columbus
Hance, Harry Thomas.....	Chem.	202	156	Columbus
Hapgood, Eugene Palmer.....	Chem.	202	118	Sabina
Hardy, Paul .....	E. M.	208	87½+5	Columbus

† Pursuing a special course.

\* Preparatory work incomplete.



	Course	Course Hours	Credit Hours	Home Address
Harkins, Robert Rusk, M. E. ....	.....	...	...	Columbus
Harmar, Frederick Sturgis. ....	Mining, S. 91	20		Columbus
Harrop, Carl B. ....	E. M.	208	107	Columbus
Harvey, Clarke Kenerly. ....	C. E.	210½	53+3	Brownsville
*Hatton, Frederic George. ....	Arch.	217½	11	Columbus
Hayman, Will Clayton, M. E. in E. E. ....	.....	...	...	Holgate
Hayes, Charles Bradford. ....	E. E.	219½	55½	Hilliards
Hedges, Benson Rice. ....	M. E.	222	107	Columbus
Helvey, George Stanley. ....	M. E.	223½	53	Hamilton
*Herrick, Hobert C. ....	Chem.	209½	19	Wellington
*Hershey, Herbert Clover. ....	I. A.	222	4	Columbus
Hill, Harry Earl. ....	C. E.	210½	100	Richwood
Hill, Cortland Latimer. ....	C. E.	209	47	Berlin Heights
Hirst, Harry ....	E. M.	208	93	Midvale
Hitch, James Frank. ....	C. E.	209	104	Batavia
Holbrook, George Frederic. ....	E. M.	208	97	Bucyrus
*Holloway, Thurman Welferd. ....	E. E.	219½	42½	Zanesville
Horn, Charles Curtis. ....	E. E.	219½	...	Pipesville
Hoster, Herman A. ....	M. E.	222	43½+6	Columbus
*Howard, Oscar David. ....	Arch.	212	100+40	Circleville
*Huddleson, Frank ....	†E. M.	...	129	Columbus
Hulbert, William Rowsell. ....	M. E.	222	79½+3	New York, N. Y.
Hull, Walter Austin. ....	Cer.	211	107+8	Orangeville
Hummel, Edmund Ray. ....	E. E.	219½	2	Carroll
*Hunter, James Williamson. ....	C. E.	210½	54½+5	Zanesville
Hunter, Madone Carrington, M. E. in E. E. ....	.....	...	...	Norwich
*Hylton, Gratwoods Walter. ....	†M. E.	...	60	Springfield
Jackson, Charles Edwin. ....	Cer. S.	90	45+3	Wheeling, W. Va.
Jackson, Elmer Collins. ....	C. E.	210½	4½	Columbus
*James, Frank Richard. ....	E. M.	208	82	Columbus
Johnson, Earl S., M. E. in E. E. ....	.....	...	...	Plants
Johnson, Walter A. ....	M. E.	222	109	Columbus
*Johnston, Edward G. ....	M. E.	223½	23+3	Bangor, Mich.
Jones, Howard Martin. ....	E. E.	218	113	Marysville
*Jones, James Albert. ....	C. E.	210½	38	New Straitsville
Judson, Walter Raymond. ....	E. E.	219½	55½	Dayton
Kanmacher, Samuel Houston, M. E. in E. E. ....	.....	...	...	Columbus
*Keating, Harvey Thomas. ....	Chem.	208	100	Columbus
Keim, Herbert Edward. ....	C. E.	210½	37½+2	Cleveland
Keller, Daniel Casteel. ....	E. E.	218	54	Washington C. H.
Keller, William ....	E. E.	219½	20½	Washington C. H.
Kennedy, William McCreery. ....	Cer. S.	90	10	New Brighton,
Kern, William Frederick. ....	Chem.	208	107	Bellaire [Pa.
Kettering, Charles Franklin. ....	E. E.	218	54	Loudonville
Kettler, Frank Christian. ....	E. E.	209	155	New Bremen
*Kidder, Leonard ....	C. E.	210½	...	Woodstock
*Killinger, Claud H. ....	C. E.	210½	7	Toledo
*Kimmel, Fred Bernham. ....	E. E.	219½	46½+3	Van Wert
King, Francis Emmet. ....	Mining, S. 91	89+10		Leisenring, Pa.

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\* Preparatory work incomplete.

	Course	Hours	Credit Hours	Home Address
King, Herbert Sumner.....	C. E.	209	181+9	Medina
*Kinnear, Harry Baldwin.....	Chem.	208	88	Mt. Sterling
*Kinnison, Ernest Eugene.....	C. E.	209	99	Jackson
Kirker, Gaylord B.....	Mining, S.	91	88+19	Catlettsburg, Ky.
Kittle, James Monroe.....	M. E.	223½	66½	Columbus
Klie, Walter .....	M. E.	223½	48	Columbus
Knieling, Charles August.....	E. E.	218	103+2	Willoughby
*Knies, Daniel .....	E. E.	218	71½	Columbus
Knight, William Abner, M. E.....	.....	...	...	Columbus
*Knoderer, Homer Guy.....	E. E.	218	112	Columbus
Knox, Frank S., E. M.....	.....	...	...	Columbus
Krumm, Thomas Zettler.....	C. E.	209	83	Columbus
Kunkle, Fred Raymond.....	E. E.	218	79+14	Bryan
*Laiblin, Garfield .....	M. E.	222	80	Canton
Lamb, Whitney Earl, M. E. in E. E.....	.....	...	...	Commercial Point
*Lampert, John Martin.....	M. E.	222	96	Xenia
*Lanning, Adrian Roy.....	C. E.	209	17	Dennison
Lee, Corlis Edgar, M. E. in E. E.....	.....	...	...	Pugh Postoffice
*Leinbaugh, George Gurden.....	M. E.	220	160+3	Bellevue
*Lesh, John Howard.....	M. E.	220	146	Louisville
*Lied, Ernst Mitchell.....	E. E.	218	72	Columbus
Linville, Clarence Philander, B. Sc. in Chemistry .....	.....	...	...	Urbana
Linxweiler, Otto .....	M. E.	223½	43½	Dayton
Lloyd, Donald K.....	Mining, S.	91	5	Columbus
Lockwood, Howard Thomas.....	C. E.	209	92	Batavia
Loewensohn, David .....	C. E.	210½	42½	Urbana
Long, George Garfield.....	E. M.	209½	54½	Tipecanoe City
*Luse, Herbert James.....	M. E.	223½	12	Columbus
Lyon, Arthur Hollingshead, M. E.....	.....	...	...	Wauseon
*Marckworth, Otto Stanley.....	†Chem.	...	168	Cincinnati
Marietta, Harry Riefsnider.....	E. E.	218	100+3	Dayton
Marriott, John Minges.....	Arch.	215	82½	Delaware
*Marshall, Charles Howard.....	M. E.	223½	41	Fair Haven
Marshall, Willard Beverly, M. E. in E. E .....	.....	...	...	Piqua
Martin, John D., Jr.....	M. E.	222	174+19	New Straitsville
Marting, Samuel Arthur.....	†Chem.	...	7	Portsmouth
Mason, John T.....	†Chem.	...	25	Columbus
Maxwell, Howard McGee.....	E. E.	219½	10½	Columbus
*Melick, Cyrus Alan.....	C. E.	210½	54½	Columbus
Melick, Neil Albert, C. E.....	.....	...	...	Columbus
Mercer, Robert Wood.....	E. M.	209½	51½	Chester Hill
*Miller, Albert Sanford.....	E. M.	209½	20½	Tiffin
Miller, Charles Emmitt.....	Arch.	212	150+5	Spencer
*Miller, Ralph Charles.....	C. E.	209	138+11	Zanesville
*Minor, Wells Hammond.....	E. M.	209½	54½	Akron
Moist, Harvey Clinton.....	E. E.	219½	...	Kinsey
Monseratt, Charles R.....	M. E.	223½	31	Columbus
Mooney, George Lewis.....	E. E.	219½	55½	Woodsfield
*Mooney, William Joseph.....	C. E.	210½	11½+3	Cleveland

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\* Preparatory work incomplete.

	Course	Course Hours	Credit Hours	Home Address
*Morlan, Wilbert .....	†M. E.	...	91+7	Rogers
Morris, Robert Hamilton.....	E. M.	209½	135+20	Columbus
Morris, Samuel .....	E. E.	219½	12½	Bloomingsburg
Morris, Willard Bernard.....	M. E.	222	91	Columbus
*Morris, William Blaine.....	M. E.	222	109	Massillon
Morrison, Franklin Houston.....	Cer. S.	90	45+10	Denver, Col.
*Murphy, Joseph Lincoln.....	C. E.	210½	49½	McArthur
Myers, Albert B., E. M.....	.....	...	...	Columbus
Myers, Fred .....	C. E.	210½	44½	Louisville
McComb, Hoyts Sherman.....	E. E.	219½	41	Columbus
*McEowen, Hugh Elsworth.....	C. E.	210½	17+9	Greenville
*McFarland, Horace M.....	E. M.	208	97	Columbus
McIntosh, Roscoe Everitt.....	E. E.	219	158+5	Ravenna
McKeon, Robert Dale.....	C. E.	209	99	Arcanum
*McKinlay, William Shields.....	E. E.	218	7	Denver, Col.
*McMullin, Roy .....	E. E.	219½	24	Columbus
*McOwen, Thomas .....	C. E.	210½	47+34	Ovid
*McWhinney, Harry Ozias.....	E. E.	219½	18½+15	Lewisburg
*Nauss, Ralph Welty.....	Chem.	202	153	Greenville
Needham, Harry Smithson, M. E.....	.....	...	...	Columbus
Nicholson, Charles Marion, M. E. in E. E. ....	.....	...	...	Columbus
*Nidy, Herbert C.....	E. E.	219	162+2	Greentown
Nobles, Edwin Earl.....	†C. E.	...	24	Flint, Mich.
Nold, John H., E. M.....	.....	...	...	Columbiana
*Nye, Ralph D.....	E. E.	219½	52	Zanesville
Ogden, Ellsworth .....	M. E.	223½	64½	Columbus
*Ohliger, Clyde C.....	C. E.	210½	14	Wellsville
Osborn, Liphe Andrews.....	M. E.	223½	47	Columbus
O'Shaughnessy, Joseph .....	I. A., S.	...	96	Columbus
*Panter, Thomas Alfred.....	E. E.	218	104	Niagara Falls,
*Parkin, William Z.....	M. E.	222	77	Columbus [N.Y.
Parrett, Benjamin Creamer.....	Chem.	208	91	Washington C. H.
Patton, William Arthur.....	M. E.	223½	9½	Circleville
Peck, Alfred Steven.....	Mining, S.	91	53	Cleveland
*Perks, George Wheldon.....	M. E.	222	85	Springfield
Peterson, John William.....	Arch.	217½	54½	Port Clinton
Pleukharp, Erwin Hiram.....	I. A., S.	91	42	Columbus
Pope, Mrs. Edna L.....	Special	...	2	Columbus
*Post, Malcolm Phelps.....	Cer.	211	83+10	St. Louis, Mo.
Poto, Frank B.....	Chem.	202	167	Alliance
Potts, Royal Warren.....	†C. E.	...	29	Columbus
Pratt, Fred Kellogg, C. E.....	.....	...	...	New Philadelphia
Price, Fred Raymond.....	E. E.	219½	34½	Columbus
Reed, Nathaniel Garfield.....	M. E.	223½	55½	Youngstown
Reel, Walter C.....	C. E.	210½	9½+3	Columbus
Rennard, John Hiram.....	Mining, S.	91	44+1	Wheeling, W.Va.
*Riebel, Leroy Clemens.....	Arch.	217½	37½	Columbus
Rightmire, Robert Elwood.....	M. E.	222	120+6	Wheelerburg
Ritchie, George Alexander.....	C. E.	210½	38½	Hudson
Robinson, Robert Thane.....	E. E.	219½	17½	Bryan

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\* Preparatory work incomplete.



	Course	Hours	Credit Hours	Home Address
Rogers, Rutherford Hayes.....	E. E.	218	46+5	Columbus
*Romick, Howard Samuel.....	M. E.	223½	...	Hilliards
*Ross, Calvin Burt.....	E. E.	219½	55½	Urbana
†*Ross, Edward McKinstry.....	M. E.	223½	24½	Jerseyville, Ill
*Roth, George Lewis.....	E. E.	219½	16	Port Clinton
*Roudebush, Howard John.....	E. E.	219½	26	Owensville
*Rupert, Jesse Solomon.....	E. E.	219½	7	New Waterford
*Ryland, Paul Dillen.....	C. E.	209	189+2	Columbus
Sanderson, Clarence Herbert.....	E. E.	218	94	Logan
*Sanderson, Ray Rochester.....	E. M.	208	70+6	Washington C. H.
Sayers, Delbert Bancroft.....	E. M.	208	105+9	Marits
*Schlafly, Raydeon Karl.....	C. E.	210½	69½	Mt. Eaton
Schoenlaub, Thomas Jacob.....	C. E.	209	77	Marion
*Schott, Alvin Christian.....	Chem.	208	56	Massillon
Schreiber, George Ernest, M. E. in E.E. ....	...	...	...	Ironton
Schubert, Charles Wesley.....	C. E.	210½	54½	Columbus
Schwab, Frank Wilbert.....	Chem.	208	94	New Philadelphia
*Scott, Cyrus Ellison.....	E. M.	209½	39½+9	Columbus
Scott, James Blaine.....	E. E.	219½	10½	Batavia
Senter, Herbert Pike.....	C. E.	209	104	Columbus
Sessions, Elizabeth .....	Special	...	...	Columbus
Sharp, John McDowell.....	C. E.	210½	36½+2	Columbus
*Shaw, Lucian .....	C. E.	209	72+3	West Lafayette
Shepherd, Charles William, C. E. ....	...	...	...	Huron
Sherman, John K.....	C. E.	209	154	Columbus
*Sherwood, Frank Porter.....	†E. E.	...	128	Ashtabula
Shumate, Frank Douglass.....	M. E.	222	94+2	Urbana
Siddall, John William.....	Mining, S.	91	45	Streator, Ill.
*Sigrist, Charles Ferdinand.....	C. E.	210½	42½+10	Congress
*Simpson, Henry Jerome.....	C. E.	209	58+3	Worthington
*Singer, Lewis Parmlee.....	E. E.	219½	16½	Lewisburg
*Sinks, George Theodore.....	M. E.	223½	20	Youngstown
Smith, Harry Ford.....	M. E.	222	109	Lexington
Smith, Roy Brooke.....	M. E.	223½	56½+2	Columbus
Sosman, Robert Browning.....	Chem.	209½	56½	Chillicothe
Sowers, Emory Blose.....	I. A.	222	52	Westville
Spangler, Thomas McClellan.....	†C. E.	...	23	Pleasantville
Sproat, Amasa Delano.....	E. M.	208	107+8	Chillicothe
Stanton, Frederic Moses.....	Chem.	209½	21+15	Ridgeville
Starbuck, John Clancy.....	I. A., S.	96	16	Somerton
*Sterling, James Gilman.....	M. E.	222	101	Springfield
*Stocker, James Arthur.....	C. E.	209	104	Gnadenhutten
Stone, Thomas Wade.....	M. E.	222	100½	New Bremen
Stout, Wilber .....	Cer., S.	90	40+15	Sciotoville
Strong, Harry Miller .....	†Min'g, S.	...	39	Wilkesville
Strong, Jonathan Edgar.....	M. E.	223½	16½	Columbus
*Stull, Raymond Thomas.....	Cer.	211	101	Elkland, Pa.
*Talbot, Edgar Carl.....	E. E.	219½	...	Columbus
*Tanner, Edward Wood.....	M. E.	222	104	Zanesville
Taylor, William Oliver.....	E. E.	219½	55½	Urbana

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\* Preparatory work incomplete.

† Died August 13, 1900.



	Course	Course Hours	Credit Hours	Home Address
*Templin, John Richard.....	E. E.	219½	42½	Salem
Thomas, Alfred Redman.....	Mining, S.	91	87	Glouster
*Thomas, Edward .....	Chem.	209½	37½	Navarre
*Thornton, Nyman .....	M. E.	223½	47½	Wyoming
Trish, George .....	Mining, S.	91	88	Nevada
Tubbs, Alfred Stowe.....	Mining, S.	91	38	Tubbsville
*Tudor, Glenn E.....	C. E.	210½	42½+3	Chicago
Tyler, John Sherrerd.....	M. E.	223½	42+12	Dayton
Van Dyke, Clifford Steel.....	E. E.	219	160	Ansonia
*Van Schoyck, Ray.....	M. E.	223½	...	Hilliards
*Van Tine, Charles Hovey.....	M. E.	223½	62	Tiffin
Vosskuehler, Joseph Henry.....	M. E.	...	...	Dayton
*Waddell, Starling .....	E. E.	218	55	Columbus
*Walker, Walter Hamilton.....	E. E.	219½	2	West Canaan
*Walsh, George E.....	M. E.	223½	13	Columbus
*Ward, Samuel Edwin.....	M. E.	223½	56	Green Spring
*Ward, Vernon C., Jr.....	M. E.	222	72	Columbus
*Warnock, David Ross.....	E. E.	219½	4½	Urbana
*Webber, Frank Merrill.....	E. E.	219½	32	West Richfield
Weber, Frederick Clarence.....	Chem.	202	138	Evanston
*Weidman, Charles Albert.....	E. E.	219½	21	Navarre
*Weiss, William Winfred.....	C. E.	210½	33½	Canal Dover
Wellbaum, Arvy E.....	M. E.	222	109	Brookville
*Wells, Ralph P.....	M. E.	223½	14½	Lisbon
*Whetsel, Emerson Jay.....	C. E.	209	82+5	Jackson
*White, Frederick Lewis.....	M. E.	223½	...	Gambier
Wiel, Arthur Bernard.....	Special	...	17	Cleveland
Wilcox, Carl Clifford.....	M. E.	223½	47	Columbus
*Wildermuth, Troy Dreslan.....	M. E.	223½	2	Columbus
Williams, Harry Ernest.....	M. E.	222	109	Harlem
*Williams, Howard Insko.....	C. E.	209	39+4	Dayton
Williamson, Homer Davison.....	Chem.	202	179	Monroe
*Wilson, James Sommerville.....	M. E.	222	162+22	Columbus
Winger, Stanley DuBoise.....	M. E.	222	92½	Springfield
Wittich, Manuel .....	Cer., S.	90	20+5	Mt. Sterling
Wolf, Richard Ludwig.....	Cer., S.	90	45+17	Detroit, Mich.
Wright, John .....	Cer., S.	90	20	Antrim, Pa.
Wright, Lawrence Robert.....	E. E.	219½	30½+18	Gambier.
Wright, Otis H.....	E. E.	219½	47½	Worthington
*Wyer, Samuel S.....	M. E.	223½	48½	Barberton
Yost, Benjamin Franklin.....	†Min'g, S.	...	...	Columbus
Yost, Lloyd .....	M. E.	222	103	Somerset
Youmans, W. Raymond.....	E. E.	219½	53½	Pataskala
Zbinden, Hermann Christian.....	C. E.	210½	130+6	Toledo
*Zeller, Ralph .....	E. M.	209½	66½	Ottawa
Zwerner, Fred George.....	E. E.	219½	54+6	Columbus

† Pursuing a special course.

\* Preparatory work incomplete.

## COLLEGE OF LAW

## UNDERGRADUATES — 201

	Year	Home Address
Addison, Arthur Everet.....	Third	Columbus
Addison, Clarence Maywood.....	Third	Columbus
Alvord, Justus Elvin.....	Second	Bryan
Amos, Frank Craig.....	Second	Sidney
Anderson, Ralph .....	First	Dennison
Armstrong, Russel Livingston.....	Third	Celina
Arnold, Harry Crumley.....	Second	Columbus
Ashman, Frank .....	Second	Coshocton
Baggott, Roland Webb.....	Third	Dayton
Bamer, Merton Leonard.....	Second	Grand Rapids
Barnet, Clarence Elwood.....	First	New Paris
Beatty, Robert Jay.....	Second	Cardington
Bechtol, John M.....	First	Fayette
Beetham, Rupert Rennison.....	Third	Cadiz
Benedict, Charles Yeddo.....	Third	Mansfield
Berry, Edmond Franklin.....	Second	Celina
Bininger, James Wolfgang.....	Third	Lancaster
Bock, Theodore E.....	Second	Hamilton
Bolton, Thomas Bennett.....	First	Cleveland
Bostwick, Homer Z.....	First	Columbus
Bowden, Harry W.....	Special	Minerva
Bowers, Walton S.....	Second	Hamilton
Branum, Frank C.....	First	Bridgeport
Bright, Frederick Ijams.....	Third	Logan
Brown, Albert Marion.....	First	Wauseon
Brown, James Earl .....	Second	De Graff
Burgess, James Henry.....	Second	Big Horn, Wy.
Burkey, Charles Paul.....	First	Pleasantville
Byers, William E.....	Third	Loudonville
Calderwood, Charles Barton.....	Second	Columbus
Calkins, Frank Elwood.....	Third	Grand Rapids
Calvin, Anthony B.....	Third	Youngstown
Carey, John T.....	Second	Upper Sandusky
Cary, Charles Ross.....	Third	Millersburg
Clark, Lawrence Hayes.....	First	Cumberland
Clark, William Whittier.....	First	Canton
Clum, Harry Ernest.....	Second	Thornville
Cockerill, Orville Porter.....	First	Washington C. H.
Courtright, Thurman Thomas.....	Third	Greencastle
Crawford, William Harry.....	Third	Massillon
Croll, Alfred Jacobs.....	Third	Tontogany
Crout, Ray Durand.....	First	Columbus
Cullen, William Barnes.....	First	Hamilton
Curran, Bernard Franklin.....	Second	Corning
Damon, Owen H.....	Special	Hinckley
Darby, Roscoe Bryant.....	Third	Wauseon
Dawson, Nathan Charles.....	Second	Columbus
Determan, Hugo Philip.....	First	Columbus
De Witt, Claude Bennett.....	Third	Sandusky

	Year	Home Address
Donley, Russell Lee.....	Third	West Bedford
Doud, Harry L.....	Second	Norwalk
Downing, Earl Summerville.....	Second	Middleport
Du Bois, Aaron Smock.....	Third	Franklin
Duff, Alfred L.....	Second	Port Clinton
Dunlap, Carl Reed.....	Second	Columbus
Eagleson, Joseph Pentecost.....	First	Columbus
Euans, William Weldon.....	First	Columbus
Evans, Thomas Daniel.....	First	Newark
Feibel, Louis .....	Second	Hillsboro
Fippin, Elmer Otterbein.....	First	Galloway
Frankenberg, Don Juan.....	Second	Tempe, Arizona
Foster, George Gruel.....	First	Columbus
Friedlich, Alfred .....	Third	Troy
Galloway, Arthur Clyde.....	Second	Columbus
Gardner, Howard Julius.....	First	Kent
Graven, D. Homer.....	Third	Nashville
Haberer, Harry Andrew.....	Second	Dayton
Hahn, Howard Edward.....	Third	Coshocton
Hammond, Frank Nathan.....	Second	Smithfield
Hammond, Frederic Mathas.....	Second	Smithfield
Hancock, Winfield Scott.....	Third	Marietta
Harper, Ellahue Ansile.....	Third	Columbus
Harris, Claudius Earl.....	First	Martinsville
Hershey, Harry Hartman.....	Third	East Greenville
Hertlein, John F.....	Third	Sandusky
Hite, William A.....	First	Thornville
Hornbeck, Ross Garfield.....	First	London
Houss, Eugene Augustus.....	First	Wapakoneta
Howells, George A.....	Third	Massillon
Hummell, Edwin Ray.....	First	Carroll
Jacobs, Horace K.....	Third	Waynesville
Jahn, Nan .....	Third	Columbus
Johnson, Charles Foster.....	First	New Albany
Jones, Abbe Linhart.....	Second	South Zanesville
Jones, David Thomas.....	First	Youngstown
Jones, Hanby Raymond.....	Second	Westerville
Jones, Victor Waite.....	First	Columbus
Judge, James .....	First	Columbus
Keating, David Thatcher.....	First	Columbus
Keith, Donald Roscoe.....	First	Spencerville
Kellison, Edward Lafayette.....	Third	Quincy
Kennard, Oron Ellsworth.....	First	Chester Hill
Kinzel, Harry Gilbert.....	Second	Eagleport
Kistler, Charles Edward.....	First	Carroll
Kistler, Jonathan Aaron.....	First	Carroll
Lane, Quinton R.....	Third	Canal Winchester
Lash, Henry Lloyd.....	Second	Bolivar
Laybourne, Lawrence E.....	First	Springfield
Layne, Andrew J.....	Second	Ironton
Leonard, Ralph Sherman.....	First	Granville
Lloyd, Erastus Guy.....	Second	Westerville
Long, Albert Taylor.....	First	West Carrollton

	Year	Home Address
Loup, Thomas M.....	Third	Steubenville
Lynch, John Woods.....	Second	Greenville
Mallow, Lewis Earl.....	Second	Washington C. H.
Marquis, Fred Samuel.....	Third	Mansfield
Mattison, George C.....	Second	Wauseon
Meier, William Henry.....	Third	Mt. Carmel
Melick, Neal A.....	Special	Columbus
Minshall, Thaddeus Ellis.....	Second	Chillicothe
Minshall, William Edwin.....	Third	Coshocton
Moore, Henry Curtis.....	Third	Bainbridge
Morgan, Lewis W.....	Third	Gibsonburg
Morris, Ingle Alman.....	Third	Columbus
Murphy, Frank Hayes.....	Second	New Comerstown
McCleary, Clayton Asa.....	Third	Science Hill
McClure, Robert Edward.....	Third	Dayton
McCray, Thomas Yates.....	Third	Mansfield
McCulloch, Roscoe Conkling.....	First	Millersburg
McGarry, James F.....	First	East Liverpool
Nesbitt, David M.....	First	Bellaire
Nevin, Lurton K.....	First	Dayton
Nicholas, Edward Mithoff.....	First	Columbus
Nicholas, William Renfrew.....	Second	Columbus
Nicola, Benjamin Di.....	Third	Barnhill
Norpell, Ralph.....	Second	Newark
Peck, Foreman Jacob.....	Third	Clarksburg
Pence, William D.....	Second	Columbus
Plagman, Lester W.....	First	Fremont
Polk, Winfred Whittington.....	Third	New Vienna
Poole, Loren Winfield.....	First	De Graff
Pratt, Fred Kellogg.....	Special	New Philadelphia
Price, Jonathan A.....	Second	Chili
Ramsey, Russell Kenney.....	Second	Columbus
Ranney, Jesse Fred.....	First	Columbus
Reed, Bert.....	Second	Piqua
Rightmire, George Washington.....	Second	Wheelersburg
Roebuck, Carl Fletcher.....	First	Dalton
Royon, Joseph Charles.....	First	Houston
Ryland, Paul Dillen.....	Special	Columbus
Sackett, Carl Leroy.....	Second	Big Horn City,
Sampson, John Henry.....	First	Columbus [Wy.
Scarlett, Henry Launcelot.....	First	Columbus
Schantz, Edwin Michael.....	First	Zimmerman
Schoedinger, Frederick H.....	First	Columbus
Schwenck, William Jennings.....	Third	Kenton
Shaw, John William.....	Second	Troy
Sheetenhelm, Curtis Cicero.....	First	Columbus
Sheetz, George W.....	First	New Washington
Shepherd, Charles William.....	Special	Huron
Shepherd, George Harvey.....	Second	Dayton
Shoemaker, William Allen.....	First	Zanesville
Shotwell, Franklin Albert.....	First	Marengo
Sigrist, Charles Ferdinand.....	Special	Congress
Skiles, Roscoe Carleton.....	Second	Shelby



	Year	Home Address
Smith, Wellington Cornell.....	Second	Lytle
Snow, Mason J.....	First	Columbus
Southworth, Ferdinand <b>Leek</b> .....	Third	Alliance
Sparks, Homer H.....	First	Columbus
Sprague, William Ralph.....	Second	Columbus
Springer, Nevada Weston.....	First	Columbus
Spurrier, Emery Allen.....	First	Chester Hill
Steinemann, George Charles.....	First	Minster
Sterrett, Frank Marion.....	First	Troy
Stevenson, Amos Claude.....	Third	Fostoria
Stewart, Gabrielle Townshend.....	Third	Cleveland
Stoolfire, Henri Stanton.....	Third	Columbus
Strader, Maynard .....	First	Zuber
Tangemann, Theodore H.....	Second	Kettersville
Tanner, John Robert.....	Third	Mt. Sterling
Taylor, Everett Buren.....	First	New Albany
Taylor, Frank Stewart.....	First	Alliance
Terwilliger, Meeker .....	Second	Circleville
Thomas, Herbert Spencer.....	First	Wheeling, W.Va.
Tipton, Robert .....	First	Milo
Toland, Harford Aquilla.....	Third	Columbus
Turner, Edward C.....	Second	Columbus
Veneman, Nevin Edward.....	First	Dayton
Voegele, William Frederick, Jr.....	Third	Mansfield
Wakefield, George W.....	Second	Reynoldsburg
Walker, Mary Ray.....	First	Dayton
Warden, Hosea Gilford.....	Second	Columbus
Wertz, Edward Sleaser.....	Third	Dalton
West, Frederick Rollin.....	Second	Columbus
Westwater, James Gulick.....	First	Columbus
Wharton, Homer Franklin.....	Second	Washington
Wheeler, Newberry William, Jr.....	Second	Portland
Williams, John William.....	Second	Roseville
Williams, Lloyd Thomas.....	Third	Jackson
Williamson, Allen Thurman.....	Second	Grandview
Wilmot, Charles Austin.....	Third	Claridon
Wilson, Frank .....	Third	Jolly
Wilson, Lewis Ernest .....	First	Columbus
Wise, Charles Clifton.....	First	Millersburg
Wolf, Edward Christofer.....	First	Circleville
Woods, Charles Howard.....	Third	Chillicothe
Worcester, Wood Frank.....	First	Columbus
Worman, Horace Dye.....	Second	Dayton
Wulff, August R.....	Second	Dayton
Yockey, Paul B.....	Third	Columbus
Young, Samuel N.....	Third	Lima

## COLLEGE OF PHARMACY

## UNDERGRADUATES — 39

	Course	Course Hours	Credit Hours	Home Address
*Ashinger, *William E.....	Long	208½	...	Uphur
Barrick, Alfred Ashberry.....	Special	...	144	Columbus
Block, Arthur William.....	Short	112	49	Galion
Bodman, Edgar Sereno.....	Long	208½	49½	Bement, Ill.
*Bowen, Charles Flood.....	Long	206	171+24	Columbus
Briggs, Claude Nicholas.....	Short	112	...	Briggsdale
Canfield, Delos Wilford.....	Short	112	105+26	Chardon
Cassady, Clyde Brint.....	Short	112	69	Alliance
Crosson, Stanley Berry.....	Short	112	40	Blanchester
Day, Levi Wille.....	Short	112	...	Mt. Oreb
*Funk, Roy William.....	Long	206	137+12	Chesterhill
Gardner, Charles Alfred.....	Short	112	107	Danville
Haudenschild, Harry J.....	Short	112	43+6	Loudonville
Harvey, Lucy Manola.....	Short	112	107+60	Pomeroy
Hollingsworth, Clyde Evans.....	Short	112	37	Mt. Gilead
Hoover, Walter Emmett.....	Short	112	67	Ashville
Horst, Herman Henry.....	Short	112	28	Marysville
Hurst, Grace .....	Short	112	...	Piketon
*Keller, Charles Franklin.....	Short	112	38	Arcanum
Kerr, Franklin Pierce, Jr.....	Special	...	110+19	Columbus
Kimberly, Charles Hubbell, B. Sc.....	.....	...	...	N. Fairfield
Knowlton, Fred A.....	Short	112	57	Granville
Krebs, Otto .....	Short	112	48	Cleveland
Lefferson, Charles Henry.....	Short	112	36+10	Middleton
Morris, Harry Long.....	Special	...	161	Springfield
*Naddy, Charles Joseph.....	Long	206	114	Columbus
Oglesby, Nicholas Perkins.....	Short	112	102+6	Lucretia, Va.
Phillips, James McIlvaine.....	Special	...	3	Columbus
Pope, Harry Bentley.....	Short	112	53	E. Liverpool
Roush, Katherine Layzelle.....	Short	112	10	Syracuse
Sherman, James Garfield.....	Short	112	38+12	Columbus
Snyder, Roy Bernard.....	Short	112	43	London
Squire, Clarence W.....	Short	112	73	Ashville
Stoelzel, Julius Frederick.....	Short	112	15	Loudonville
Tracy, John Baptist.....	Short	112	68	Circleville
Wagstaff, Harry Garfield.....	Special	...	112	Niles
Ware, George H.....	Short	112	20	Dayton
Webb, Edward Nathan.....	Long	206	113	Rome
Young, Cyrus Homer.....	Long	206	118	Wooster

\* Preparatory work incomplete.

## COLLEGE OF VETERINARY MEDICINE

## GRADUATE STUDENTS—5

	Home Address
Clawson, Clarence Alfred, B. Sc. (Agr.).....	Okena
Hanawalt, David Christopher, V. S. (Ontario).....	Greenfield
Hart, Arthur Clark, V. S. (Ontario).....	West Richfield
Imes, Marion, B. Sc. (Agr.).....	Bashan
Murray, Frank Erskine, D. V. M.....	Greenfield

## UNDERGRADUATES—17

	Course Hours	Credit Hours	Home Address
*Auer, Curtiss .....	172	18	Lewisville
Brown, Harry Wilbur.....	172	54	Columbus
Eddy, William D. V. M.....	...	...	East Cleveland
*Forrester, Harry Arthur.....	172	54	Reynoldsburg
*Griffin, Frank .....	177	165	Columbus
Hammond, Harry James, D. V. M.....	...	...	Sharon
*Henderson, Charles Logan.....	172	54	Crescent
*Irwin, Albert N.....	177	112	Columbus
*Johnson, Theodore Charlemagne.....	177	106	Akron
*Lamb, Morgan Baxter.....	172	34	Barlow
*Metzger, Edward Louis.....	177	108	Louisville
Morrow, Charles James, D. V. M.....	...	...	Tiro
*McClelland, Robert Lyle.....	172	66	Andover
*Pettiford, Oscar Collins.....	172	54	Wauseon
*Sater, Clinton Huron.....	172	54	Sater
*Severn, Warren .....	172	54	Cuba, N. Y.
Worcester, Warner .....	Special ...	186	Columbus

\* Preparatory work incomplete.

## GENERAL SUMMARY

COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE—		
Graduate Students .....	4	
Undergraduates .....	153	
	—	157
COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE—		
Graduate Students .....	25	
Undergraduates .....	419	
	—	444
COLLEGE OF ENGINEERING—		
Graduate Students .....	11	
Undergraduates .....	394	
	—	405
COLLEGE OF LAW—		201
COLLEGE OF PHARMACY—		39
COLLEGE OF VETERINARY MEDICINE—		
Graduate Students .....	5	
Undergraduates .....	17	
	—	22
Total .....		1,286
Names counted twice.....		16
Net total .....		1,252



## SUMMARY BY COUNTIES

Adams .....	1	Guernsey .....	4	Morrow .....	6
Allen .....	5	Hamilton .....	13	Muskingum .....	18
Ashland .....	9	Hancock .....	3	Ottawa .....	3
Ashtabula .....	11	Hardin .....	3	Paulding .....	1
Athens .....	3	Harrison .....	5	Perry .....	13
Auglaize .....	10	Henry .....	5	Pickaway .....	14
Belmont .....	9	Highland .....	4	Pike .....	2
Brown .....	2	Hocking .....	3	Portage .....	8
Butler .....	14	Holmes .....	5	Preble .....	10
Carroll .....	3	Huron .....	9	Putnam .....	4
Champaign .....	14	Jackson .....	11	Richland .....	10
Clark .....	10	Jefferson .....	9	Ross .....	24
Clermont .....	12	Knox .....	17	Sandusky .....	4
Clinton .....	8	Lake .....	3	Scioto .....	6
Columbiana .....	16	Lawrence .....	6	Seneca .....	10
Coshocton .....	13	Licking .....	22	Shelby .....	3
Crawford .....	5	Logan .....	10	Stark .....	22
Cuyahoga .....	15	Lorain .....	8	Summit .....	9
Darke .....	6	Lucas .....	6	Trumbull .....	6
Defiance .....	1	Madison .....	17	Tuscarawas .....	12
Delaware .....	6	Mahoning .....	9	Union .....	12
Erie .....	16	Marion .....	6	Vinton .....	3
Fairfield .....	20	Medina .....	9	Van Wert .....	2
Fayette .....	14	Meigs .....	11	Warren .....	7
*Franklin .....	423	Mercer .....	2	Washington .....	5
Fulton .....	9	Miami .....	16	Wayne .....	11
Gallia .....	8	Monroe .....	2	Williams .....	5
Geauga .....	6	Montgomery .....	39	Wood .....	7
Greene .....	9	Morgan .....	11	Wyandot .....	2

## SUMMARY BY STATES AND COUNTRIES

(As far as known)

Alabama .....	1	Iowa .....	1	Ontario .....	1
Colorado .....	2	Kentucky .....	2	Oregon .....	1
Cuba .....	1	Michigan .....	5	Pennsylvania .....	6
Georgia .....	1	Missouri .....	1	Virginia .....	3
Germany .....	1	New Jersey .....	1	Washington, D. C. ....	2
Illinois .....	9	New York .....	6	West Virginia .....	7
Indiana .....	2	Ohio .....	1197	Wyoming .....	2

\* Nearly forty-two per cent. of the students registered from Franklin county are those whose homes are at Columbus only during their University course.

# GRADUATES



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The faculty of the Ohio State University are anxious to place a copy of each annual catalogue in the hands of every graduate. They will esteem it a favor of any alumnus who changes his residence will notify the Executive office of his new address and occupation. They will also be grateful for any information from any source, that may assist in making or keeping the Directory of the Alumni complete and correct.

## ALUMNI ASSOCIATION

### OFFICERS FOR 1900-1901

MRS. ANNIE W. SIEBERT, '84, Columbus.....	<i>President</i>
FRANK RAY, '87, Columbus.....	<i>Vice-President</i>
LOWRY, F. SATER, '95, Columbus.....	<i>Secretary</i>
MIRON A. SMITH, '92, Columbus.....	<i>Treasurer</i>
G. GLEN ATKINS, '88, Greenfield, Mass.....	<i>Orator</i>

### COMMITTEE ON COLLEGE AFFAIRS

FLORIZEL SMITH, '80, Columbus.....	Term expires	1901
MRS. HARRY I. ABBOTT, '93, Columbus.....	"	1902
LORING HAPGOOD GODDARD, '92, Manora, Ohio.....	"	1903
KARL T. WEBER, '97, Columbus.....	"	1904
BERTHOLD A. EISENLOHR, '98, Corning.....	"	1905

### COMMITTEE ON NECROLOGY

LOWRY F. SATER, '95, Columbus.....	Term expires	1901
DAISY M. SCOTT, '87, Columbus.....	"	1902
EDWARD J. CONVERSE, '86, Columbus.....	"	1903





# DIRECTORY

## A

- Abbott, Arthur Grant, 1899, B. Sc. (Agr.), Medina.
- Abbott, Royal A., 1900, B. Ph., Columbus.
- Ackerman, Eli Osborn, 1884, C. E., 2664 North High street, Columbus, Columbus Street Railway Co.
- Ackerman, Fremont, 1883, C. E., Los Angeles, Cal., civil engineer.
- Addison, Arthur Everett, 1895, B. Ph., 1900, LL. B., Columbus, teacher East High School.
- Addison, Louis Granville, 1892, LL. B., Columbus, attorney-at-law.
- Addison, Clarence Maywood, 1896, B. Ph., 1900, LL. B., Columbus, teacher Central High School.
- Agler, Eulalia, 1895, G. Ph., Columbus, with Columbus Pharmacal Company.
- Albert, Louisa Mary, 1895, B. A. (Ohio Wesleyan University), 1896, G. Ph., Mrs. A. E. Vinson, Columbus.
- Aldrich, Chester H., 1888, B. A., LL. B., David City, Neb., attorney-at-law.
- Aldrich, Edgar S., 1897, M. E. in EE., Proprietor and Manager Electric Light Plant, Waynetown, Ohio.
- Alexander, St. Clair, 1893, M. E. in EE., Bridgeport.
- Alexander, Charles P., 1896, M. E. in EE., Canton, O., District Manager Northwestern Mutual Life Insurance Company.
- Allaman, William Ernest, 1896, G. Ph., Columbus, Student O. M. U.
- Allen, Edward Harrison, B. A. (Ohio Wesleyan University), 1899, LL. B., Lena.
- Allen, Lucy, 1897, B. A., 1900, M. A., Columbus, library assistant, State University.
- Alsdorf, Percy Reed, E. M., Central City, Col., Standard Assay office.
- Alsdorf, Frederick Charles, 1892, E. M., Central City., Col., Superintendent Mt. Wilson Gold and Silver Mining Co.
- Alspach, Rufus Edwin, 1897, M. A. (B. A. Heidelberg), Thornville.
- Anderson, James T., 1884, B. A., Colorado Springs, Col., 1st Lieutenant U. S. Army.
- Anderson, Newton M., 1879, B. Sc., Cleveland, Principal of the University School.
- Andress, Edna A., 1900, B. Ph. (Mrs. Julius Stone) Columbus.
- Andrews, Albion Joseph, Jr., 1893, LL. B. (B. S., Ohio Wesleyan University), Zanesville.
- Andrews, Lincoln Elmer, 1893, LL. B., 1895, B. Ph., Columbus, attorney-at-law.
- Armstrong, Edna, 1897, B. Ph., Columbus.
- Armstrong, William H., 1890, G. Ph., Marysville, druggist.
- Arnold, Charles Lincoln, 1890, B. Sc., 1894, M. Sc., West Eighth ave., Columbus, assistant professor in mathematics, State University.
- Arnold, Edwin E., 1898, M. E., Westinghouse Machine Co., Pittsburg, Pa.
- Atkins, G. Glenn, 1898, B. A., Greenfield, Mass., pastor Congregational Church
- Atkinson, Warren, 1899, M. E., Tester of steam pumping engines at works of H. R. Worthington, Brooklyn, N. Y.
- Auld, James A., 1897, M. E. in EE., Columbus, with D. S. Auld, 76 East Gay street.
- Austin, John Gustave, 1899, LL. B., Sparta.

## B

- Bachtell, Nellie May, 1895, B. A., New London, teacher.
- Backhaus, Henry Ward, 1894, B. A., Wapakoneta, cashier People's National Bank.
- Baer, Philip, Jr., 1897, B. Sc. (Agr.), Canal Dover, Dairy Farmer.
- Bagley, Anna Gertrude, 1894, G. Ph., Columbus, with Hallwood Cash Register Company.
- Baker, James Burt, 1898, LL. B., Salem.
- Baker, John Ezra, 1897, B. A., 1898, LL. B., St. Paris.
- Baker, William Hollister, 1892, B. Agr., Hazelhurst, Mo., farmer and stock raiser.
- Baldwin, Elizabeth Grant, 1899, B. Ph., Columbus.
- Baldwin, Zoa Belle, 1896, B. A., Neil Av. Columbus.
- Ball, Emma Leanna, 1895, B. Sc., 1896, M. Sc., Columbus.
- Ball, Fred S., 1888, B. Ph., Montgomery, Ala., attorney-at-law.
- Bancroft, Gay, 1898, B. A., Columbus, 26 West Gay street.
- Barcus, Eliza D., 1900, B. A., Columbus.
- Barcus, Miner, 1897, M. E., in EE., Schenectady, N. Y., with General Electric Company.
- Barlow, Helen M., 1898, B. Ph., Columbus.
- Barnaby, Charles L., 1898, C. E., 37 South Ninth street, assistant on Engineer Corps, Cincinnati Division, P. C. C. & St. L. Ry.
- Barnaby, Josephine, 1896, B. Ph., Warren, teacher.
- Barrows, Harry Holbrooke, 1898, C. E., Lexington, Ky., resident engineer. Cincinnati Southwestern R'y.
- \*Bartholomew, Clyde Stanley, 1896, C. E., died June 23rd, 1900.
- Basterdes, Ada Mabel, 1890, B. Ph., Plano, Ill., teacher in High School.
- \*Bates, Josephine M., 1881, B. Ph., Mrs. Florizel Smith, died —, 1900.
- Bates, Wesley, C., 1882, LL. B., 35½ N. High street, Columbus, Attorney.
- Baughman, George W., 1897, G. Ph., Springfield, Pharmacist.
- Beach, David Price, 1895, C. E., Wellsville, in employ of Pennsylvania Railroad.
- Beach, Margaret Alice, 1891, B. Ph., Mrs. Wilson Holman, Bayonne, N. J.
- Beardsley, Orsamus D., 1898, B. Ph., Garretttsville.
- Beattie, William Renick, 1894, B. Sc., 1897, M. Sc. (in Horticulture), Washington, D. C., U. S. Department of Agriculture.
- Beck, Arthur Andrew, 1893, C. E., Columbus, county surveyor's office.
- Belden, Sanford Bonner, 1895, E. M., Manager Pittsburg Office Jeffrey Manufacturing Company.
- Bell, Florence Louise, 1900, B. Ph., Columbus, 382 East Town street.
- Bell, Mary Edith, 1894, B. Ph., teacher in Central High School, Columbus.
- Bennet, Henry C., 1890, B. A., 100 Washington street, Chicago, Ill, Attorney-at-law.
- Bennett, Samuel E., 1890, D. V. M., Kansas City, Mo., Government Meat Inspector.
- Bently, William Preston, 1885, B. Agr. (B. A. 1890, M. A. 1893, Bethany College) 15 Miller Road, Shanghai, China, missionary.
- Bertsch, Joseph Franz, 1896, LL. B., Columbus, 124 West Ninth avenue.
- Bibbee, George E., 1897, LL. B. (A. B. Ohio Wesleyan University), Columbus, 41 King avenue.
- Biebel, Herman Matthews, 1896, M. E. in EE., Chicago, Ill., electrical engineer with Western Electric Co.
- Bischoff, John Wallace, 1899, E. M., Thomas, W. Va., assistant engineer Davis Coal and Coke Co.

- Bissing, William, 1893, M. E. in EE. (A. B. Johns Hopkins University), examiner in U. S. patent office, Baltimore, Md.
- Blackburn, Frank H., 1896, M. E. in EE., Fostoria, Electric Engineer, Fostoria Incandescent Lamp Co.
- Blaire, Edward Grey, 1895, G. Ph., Shawnee, pharmacist.
- Blakiston, Anna Houston, 1897, B. Ph., Mrs. Powell.
- Blakiston, Mary, 1893, B. Ph., Columbus, teacher in East High School
- Blinn, Ray S., 1893, B. S.
- \*Bloom, Edwin M., 1893, B. Sc., died, 1894.
- Bloom, J. George, 1889, C. E., Chillicothe, division engineer B. & O. S. W. Ry.
- Bloomfield, Lloyd Morris, 1891, B. Agr., Central America.
- Bock, Harrison W., 1898, LL. B., 1899, B. Ph., Canton.
- Bockius, Harry Graham, Ph. B. (Yale University), 1899, LL. B., Canton.
- Bodman, Mary E., 1898, B. Ph., Bement, Ill.
- Boesche, Felix John, 1896, G. Ph., Denver, Col.
- Boesel, Frank Tilden, 1896, B. Ph., student, Harvard Law School.
- Bogue, Ernest Everett, 1894, B. Sc. H. & F., 1896, M. Sc., Professor of Botany and Horticulture, Agricultural and Mechanical College, Stillwater, Okla.
- Bohn, Frank A., 1900, B. Ph., Olmsted Falls.
- Bohn, William Edward, B. A. (German Wallace College), 1900, M. A., Olmsted Falls.
- Bond, Charles Grosvenor, 1899, LL. B., Columbus, 595 Oak street.
- Bone, John H., 1893, B. Sc., 1896, B. Sc. (Agr.), New Richmond, Ind.
- Booth, Lucy Adelaide, 1892, M. A. (B. A., Ohio Wesleyan University), 1894, Ph. D., Columbus.
- Bope, George W., 1897, LL. B., Columbus, third assistant director of law, 275 East State street.
- Bostwick, Hoimer Z., 1900, B. A., Columbus, Student O. S. U. Law School.
- Bowden, Harry W., 1900., C. E., Minerva.
- Bower, Jerome G., 1897, M. E., 295 North High, Columbus.
- Bownocker, John A., 1889, B. Sc., 1897, D. Sc., Columbus, associate professor of Inorganic Geology, State University.
- Boyd, Emma, 1888, B. Ph., 38 W. Woodruff ave., Columbus, teacher in the North High School.
- Boyd, James Ellsworth, 1891, B. Sc., Columbus, assistant professor of Physics, State University.
- Boyd, James G., 1897, D. V. M. Columbus.
- Boyd, Martin L., 1897, LL. B., Columbus, 265 East Eleventh Ave.
- Bradford, Ernst, 1892, G. Ph., Columbus, chemist, with N. W. Lord, O. S. U.
- Bradford, Joseph Nelson, 1883, M. E., 54 West Tenth Ave., Columbus, associate professor of drawing, State University.
- Brand, Harry Frank, 1896, B. Ph., 1897, LL. B., Worthington.
- Brandt, James Herbert, 1899, B. A., Greencastle.
- Brandt, Ulysses Sherman, 1895, B. A., Canal Winchester.
- Braun, Joseph G., 1897, G. Ph., Columbus, 802 South Champion avenue, Pharmacist.
- Brelsford, Harley, 1898, B. Ph., Christiansburg.
- Brewer, Charles Reed, LL. B., Bowling Green.
- Brewer, John Whitney, 1896, G. Ph., Columbus, 126 West Tompkins street, Pharmacist.
- Bright, Frederick I., 1900., LL. B., Logan.
- Britton, John Carr, 1898, B. Sc. (Agr.), Buffalo, N. Y.
- Brier, Harvey E., 1890, D. V. M., Tippecanoe City, veterinary surgeon.



- Bronson, Herman S., 1897, LL. B. (B. L., Cornell University), Columbus, Attorney, 120 Wilson avenue.
- Brophy, James Francis, 1899, E. M., Sun, W. Va., Sun Coal and Coke Co.
- Brown, Frank, 1899, M. A. (A. B., Macalester College), Columbus, teacher in High School.
- Brown, Frederick W., 1888, E. M., Superintendent of Colorado Portland Cement Co., Florence, Colorado.
- Brown, Newton H., 1893, M. E. in EE., Newark, Del., professor of Electrical Engineering, Delaware College.
- Bruce, Charles A., 1895, B. A., Columbus, assistant professor of Romance Languages, State University.
- Brumley, David, 1895, C. E., Louisville, Ky., with L. & N. Ry.
- Bruning, Henry Dietrick, 1896, C. E. Pittsburg, Pa., engineer on P., C., C. & St. L. R. R.
- Buchenberg, Alvin E., 1900, M. E. in E. E., Holgate.
- Buckman, Arthur Leslie, 1897, M. E., in EE., Central Union Telephone Co., Toledo.
- Buckman, Ola., 1895, B. Sc. (M. D., Cleveland University of Medicine and Surgery), Norwalk.
- Bunnell, Larone A., 1898, G. Ph., Dayton, Pharmacist.
- Burgess, James Henry, 1900, B. Ph., Big Horn, Wy.
- Burkett, Charles William, 1895, B. Sc. (Agr.), 1898, M. Sc. (Agr.), Durham, N. H., professor of Agriculture, New Hampshire State College.
- Burkett, Dora Van Buren, 1897, B. Ph., Columbus.
- Burns, James Ferguson, 1891, C. E., Hopkinsville, Ky., assistant engineer L. & N. Ry.
- Burr, Harriett G., 1897, B. A., Worthington.
- Butler, James Marion, 1894, LL. B. (A. B., Ohio Wesleyan University), Carmel.
- Butterworth, William H., 1898, B. A., Columbus, 45 North Seventeenth street.
- Bygate, Harry Goldsmith, 1899, M. E., Draftsman, Homestead Steel Works, Homestead, Pa.
- Byers, Clara, 1894, B. Ph., Mrs. Coles A. Raymond, Youngstown, O.

## C

- Cahen, Alfred, 1894, LL. B., Allegheny, Pa.
- Calkins, George Herbert, 1895, M. E. in EE., with Gen. Electric Co. Testing Department, Schenectady, N. Y.
- Calkins, William Bartlett, 1898, G. Ph., New Straitsville, Chemist, Steel Works.
- Callender, Sherman D., Ph. B. (Oberlin College), 1898, LL. B., 326-330, The Nasby, Toledo, Attorney.
- Calvin, Anthony B. (A. B. Northeastern Ohio Normal), 1900, LL. B., Youngstown.
- Canfield, Charles H., 1897, D. V. M., Government Meat Inspector. Kansas City, Mo.
- Canfield, Dorothea Francis, 1899, B. Ph., graduate student, Columbia University, New York City.
- Canfield, Leander Randall, 1896, B. Ph., Chardon.
- Capron, Marshall Fremont, 1888, M. E., architect, Cleveland.
- Carr, Hugh Stanley, 1896, M. E. in EE., assistant professor Electrical Engineer, Lawrence, Kansas.
- Carr, James Gray, 1897, B. A., Coshocton.
- Carroll, Patrick Henry, 1894, E. M., Herrin, Illinois, Supt. Big Muddy Coal and Iron Co.

- Carroll, William Hunt, 1894, LL. B., Wilmington.
- Carson, Samuel King, 1895, M. E. in EE., M. D. (Ohio Medical University),  
Acting Assistant Surgeon U. S. A., Manila, P. I.
- Cary, Charles R., 1900, LL. B., Millersburg.
- Cathcart, Josephine M., 1888, B. Sc., 1131 Cedar avenue, Cleveland, accountant.
- Catlin, Homer Clark, 1896, C. E., Bridge Department, N. Y. C. R. R., Grand  
Central Station, N. Y.
- Canaga, George Orlando, 1895, LL. B. (B. A., Scio College).
- Cartwright, Henry Gilroy, 1895, LL. B.
- Cavanaugh, Andrew F., 1900, M. E., Dayton.
- Cellarius, Frederick Julius, 1888, C. E., Dayton, civil engineer.
- Chamberlain, Helena W., 1884, B. A., Mrs. Ellis Lovejoy, Union Furnace.
- Chalmers, Agnes Florida, 1895, B. Ph., Bay City, Mich., teacher in High School.
- Chappell, Walter Evans, 1898, M. E. in EE., first-class electrician, U. S. S.  
*Chicago*, care U. S. Despatch Agent, New York.
- Charters, William Filson, 1887, B. Ph., Sidney, tax inquisitor.
- Cherryholmes, W. K., 1881, B. Sc., M. D., Hamilton, physician.
- Cilley, Raymond, 1896, C. E.
- Clark, Alexander B., A. B. (Yale University), 1899, LL. B., Canton.
- Clark, Clarence J., 1899, C. E.
- Clawson, Clarence Alfred, 1899, B. Sc. (Agr.), 1900, D. V. M., Okena.
- Clay, Albert Arlington, 1893, LL. B. (B. A., Tri-State Normal College), Hicks-  
ville.
- Claypoole, Bessie Smith, 1895, B. Ph., Columbus, student, 1080 North High St.
- Claypool, Charlotte Lake, 1892, B. Ph., Columbus, 1080 North High St.
- Clements, Frank Orville, 1899, M. Sc. (M. A., Otterbein University), Westerville.
- Clum, George V., 1893, B. A., Mendota, Ill., president of Mendota College.
- Clum, Harry Ernest, 1899, B. Ph., Westerville.
- Cockins, Edith D., 1894, B. A., Columbus, registrar, State University.
- Coddington, Edwin F., 1896, C. E., 1897, M. Sc., fellow in Astronomy, Lick  
Observatory, Mount Hamilton, California.
- Cole, George Nathan, 1891, M. E., in EE., Chicago, Ill., 112 Clark street.
- Cole, Marietta C., 1897, B. Ph., Columbus, 897 Franklin avenue.
- Collins, Curtis, 1895, M. E. in EE., Salesman, General Electric Co., Baltimore,  
Maryland.
- Coney, William Hawks, 1894, B. Sc., Honolulu, S. I.
- Connell, Laura Jewell, 1896, B. Ph., Columbus, teacher of German, 433½ Long  
street.
- Connell, William A., 1886, E. M.
- Connor, Alice M., 1900, B. Ph., Columbus.
- Connor, Ellen J., 1900., B. Ph., Columbus.
- Converse, Edward Jasper, 1886, B. A. (B. D., Yale University), Columbus,  
assistant pastor, First Congregational Church, 808 North High street.
- Converse, Howard Pendleton, 1887, B. Sc., 166 Devonshire street, Boston,  
Mass., manager Boston office Cooper, Hewitt & Co., steel and iron man-  
ufacturers.
- Converse, Walter, 1899, B. A., Plain City.
- Conway, Hugh Lawrence, 1896, C. E., assistant engineer, Water Works, Cin-  
cinnati.
- Cope, Albert N., 1897, M. E. in EE., Columbus, foreman Columbus Street R. R.  
Corner, Florence, 1897, B. Ph., Columbus, 642 East Rich street.
- Corns, Harry, 1887, B. A., Columbus, teacher in Central High School.
- Corwin, Edwin E., 1880, B. A., Columbus, attorney-at-law, 1462 Neil avenue.

- Cotes, Albert E., 1897, B. Sc., Columbus, medical student, Ohio Medical University.
- Courtright, J. Loring, 1900, B. A., Circleville.
- Coursault, Ida May, 1899, B. Ph., Columbus, 770 East Long street.
- Coursault, Jesse H., 1893, B. A., 1898, M. A., Columbus, teacher in Central High School.
- Covell, Vernon Royce, 1895, C. E., Pittsburg, Pa., county engineer's office.
- Craig, Moses, 1889, B. Sc. (M. S., Cornell University, 1890), 1896, M. Sc. (H. F.), Auburn, Ala., assistant in Horticulture Experiment Station.
- Cratty, John Mason, 1897, B. Sc., Cincinnati, chemist.
- Crawford, Ira, Jr., 1893, LL. B. (B. S., Denison University), Dayton.
- Crawford, William Sterling, 1888, B. Ph.
- Croll, Alfred J. (A. B., Ohio Normal University), 1900, LL. B., Tontogany.
- Cromley, Alva M., 1897, G. Ph., pharmacist, Circleville.
- Crooks, Charles Melvis, 1892, B. A. (D. D., Harvard University, 1896), Colerain, Mass., pastor Congregational church.
- Crowner, Delbert Alonzo, 1896, B. Sc. (Agr.), Wellsville, N. Y.
- Cummins, Henry Rollins, 1891, G. Ph., Akron, pharmacist.
- Cunningham, Arthur, 1880, B. A., 107 Lincoln street, Columbus, book-keeper.
- Cunningham, Edward Walker, 1894, C. E., civil engineer, Schoenberger Wks. Am. Steel and Wire Co., Pittsburg, Pa.
- Cunningham, George S., 1886, B. Ph., LL. B., Lancaster, attorney-at-law.
- Cunningham, John Ferguson, 1891, B. Sc. (H. & F.), 1899, M. Sc. (H. & F.), Cleveland, assistant editor "Ohio Farmer."
- Curtis, Leigh Goodrich, 1899, C. E., Zanesville, Dept. M. of U., B. & O. R. R.

## D

- Daily, Henry G., 1892, D. V. M., Wooster, veterinary surgeon.
- Dally, John Randolph, 1899, LL. B., Centerburg.
- Damron, Carson W., 1897, M. E., Columbus, Jeffrey Mfg. Co.
- Daniels, David Edwin, 1893, LL. B., B. Ph., (Denison University), 1896, LL. M., Columbus, 1326 Madison avenue.
- Darby, Roscoe B., 1900, LL. B., Wauseon.
- Davenport, Adrian E., 1897, B. A., Columbus, 1449 Franklin avenue.
- Davidson, David Millen, 1894, B. A.
- Davidson, George Edwin, 1899, LL. B., East Liverpool.
- Davies, Jennie C., 1897, B. Ph., Columbus, 590 East Spring street.
- Davies, John Lodwick, 1894, LL. B., Columbus.
- Davis, Charles William, 1894, E. M., Colorado Springs, Col., care J. Mck. Terriday & Co.
- Davis, Oscar Allen, 1897, M. E. in EE., Alliance, draughtsman Morgan Engineering Co.
- Davis, Vernon Hays, 1900, B. Sc. (Agr.), Byesville.
- Deahl, Walter Smith, 1896, C. E., 268 Fisk St., Pittsburg, Pa., Pittsburg Bridge Co.
- Deardurff, Carl Mason, 1895, B. A.
- DeLamater, Clayton William, 1884, A. B., LL. B., Omaha, Neb., attorney-at-law.
- DeLoffre, Andre, 1896, M. E. in EE., Schenectady, N. Y., Engineering Department General Electric Co.
- DeLoffre, Samuel Middleton, 1895, B. A.
- Dennis, Jerry, 1892, LL. B., 1893, LL. M., Columbus, attorney-at-law, 690 Franklin avenue.



- Derby, Florence Harlow, 1896, B. Ph., Columbus, graduate student, State University, 93 East Fifteenth avenue.
- Detmers, Frederica, 1887, B. Sc., 1891, M. Sc., 1315 Neil avenue, Columbus, teacher.
- Devol, William Stowe, 1886, B. Agr., Riverside, Cal.
- Dice, Jesse Peck, 1898, LL. B., Akron.
- Dickinson, Thomas Herbert, 1899, B. Ph., N. Y. City, graduate student Columbia College.
- Diemer, Hugo, 1896, M. E. in EE., Greenwood, N. C., professor of mechanical engineering, A. & M. College.
- Dietrich, Charles Henry, 1878, B. Sc., with American Book Co., general manager for Kentucky.
- Dietrich, George C., 1898, B. Ph., Groveport, principal of High School.
- Dill, Dille Augusta, 1900, B. Ph., Columbus.
- Doan, Frank C., 1898, B. Ph., Athens, professor of philosophy, Ohio University.
- Dollison, Harvey C., 1900, B. Sc., Columbus.
- Doney, Carl Gregg, 1891, B. Sc., 1893, LL. B., Delaware, pastor M. E. Church.
- Donham, Maurice, 1896, M. E., Struthers, Wells & Co., Warren, Pa.
- Donham, William W., 1882, B. Sc.
- Dowd, Charles F., 1900, B. Ph., Toledo.
- Dresbach, Melvin, 1897, B. Sc., Columbus, Fellow in Physiology, State University.
- Drummond, William G., 1900 M. E., Cleveland.
- Dubois, Wilbur L., 1900, B. Sc., Columbus, Fellow in Chemistry, State University.
- Dun, George William, 1884, B. Sc., Columbus, business manager "Columbus Citizen."
- Dun, John J., 1883, E. M., Fifteenth avenue, Columbus, consulting engineer.
- \*Dun, Walter Angus, 1878, B. Sc., M. D., died November 7, 1887.
- Dungan, Irvine Laird, 1892, B. Ph., Cincinnati, Lane Theological Seminary.
- Dunlap, Thaddeus Cox, 1895, M. E. in EE., consulting engineer, 8 West Seventh street, Chattanooga, Tenn.
- Dunlap, William Renick, 1895, B. Sc., Kingston, farmer.
- Dunlap, Robert R., 1900, M. E. in EE., Columbus.
- Dunnick, Edward, 1897, C. E., Mt. Vernon Bridge Co., Mt. Vernon, O.
- Duvel, Joseph W. T., 1897, B. Sc., Wapakoneta
- Dye, Clair, Albert, 1891, G. Ph., Bern, Switzerland, student at University.

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- Eagleson, John H., 1900., B. A., Columbus, 601 Oak street.
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- Early, Franklin E., 1893, D. V. M.
- Easterday, Charles Todd, 1891, G. Ph., Wellston, Druggist.
- Eddy, William, 1900, D. V. M., Cleveland.
- Edwards, Mary Winifreda, 1897, B. A., New Richmond, Prin. of High School.
- Egbert, Knott C., 1890, B. Agr., Yainax, Oregon, Supt. Indian Boarding School
- Eisenbise, Bertha, 1900, B. Ph., Columbus.
- Eisenlohr, Berthold A., 1898, B. Ph., Corning, mining engineer.
- Ellis, Charles, 1898, D V. M., 3230 Locust street, St. Louis Mo., veterinarian.
- Emery, Peyton Randolph, 1893, LL. B., London.
- Emery, Vernon Judson, 1887, B. A. (A. M., University of Nebraska), Cleveland. assistant professor of Latin, Western Reserve University.



- Erf, Oscar, 1899, B. Sc. (Agr.), Champaign, Ill., Instructor in Dairying, University of Illinois.
- Erskine, John H., 1886, E. M., Lowellville, fire brick manufacturer.
- Estep, Frank Leslie, 1898, M. E. in EE., Draughtsman, Schoenberger Works, American Steel and Wire Co., Pittsburg, Pa.
- Evans, Ernest, 1892, B. Sc., Mingo Junction, chemist, Laughlin Junction Steel Co.
- Evans, Peter Platter, 1892, C. E., Boston, Mass., with King Bridge Co.
- Evans, William Lloyd, 1892, B. Sc., 1896, M. Sc., Colorado Springs, Col., teacher of chemistry in High School.
- Eysenbach, Ernest E., 1896, E. M., Columbus, Superintendent Columbus Gas Co

## F

- Fairchild, Harmon Scott, 1894, LL. B., Springfield.
- Farber, Charles Harker, 1894, B. A., Columbus, with State Savings Association.
- Fassig, Oliver L., 1882, B. Sc., Baltimore, Md., instructor in Climatology, Johns Hopkins University.
- \*Fay, Frederick Willis, 1882, B. A., B. Arch., died August, 1892.
- Fay, Mona, 1897, B. Ph. (Mrs. Eugene Gee), Wheeling, W. Va.
- Feicht, Russell Stimson, 1890, M. E. in EE., Engineering Department Westinghouse E. & M. Co., Pittsburg, Pa
- Feiel, Ida Louise, 1898, B. Ph., Columbus, 520 East Main street.
- Fenner, Jessie Albertus, A. B. (Wittenberg College), 1898, LL. B., Shiloh.
- Fergus, Guy Carlton, 1898, M. E. in EE., partner in Zanesville Electrical Co.
- Fergus, John Franklin, 1892, LL. B., Columbus, attorney-at-law.
- Pickes, Walter M., 1900, E. M. (Ceramics) Steubenville.
- Finley, Harry Marshall, 1894, B. A., McConnelsville, principal of High School.
- Fippin, Elmer Otterbein, 1900, B. Sc. (Agr.) Briggsdale.
- Fischer, Paul, 1891, B. Agr., D. V. M., professor of Veterinary Medicine, Manhattan, Kas.
- Fischer, Robert, 1895, G. Ph., 1896, M. Ph., 1898, B. Sc., Ithaca, N. Y., laboratory assistant, Cornell University.
- Fischer, Walter, 1897, B. Sc., Columbus, 810 Franklin avenue.
- Fish, Fred Alan, 1898, M. E. in EE., Columbus.
- Fisher, Clara, 1886, B. A., Mrs. J. Porter Milligan, Columbus.
- Fisher, Georgietta, 1895, B. A., teacher in High School, Ottumwa, Iowa.
- Fisher, Ida May, 1900, B. Ph., Columbus.
- Fitzgibbon, James Robert, 1894, LL. B., Newark.
- Fitterer, John Conrad, 1898, B. Sc., Butler.
- Flickinger, George A., 1898, B. Sc., (Agr.), Knoxville, Tenn., Dairyman at University of Tennessee.
- Floto, Julius, 1889, E. M., Chicago, Ill., Monadnock Building, with C. L. Strabel.
- Flynn, Benjamin H., 1898, C. E., Columbus, with State Board of Health.
- Flynn, Harry Franklin, 1892, C. E., Washington, D. C., U. S. Geodetic and Coast Survey.
- Flynn, Maud, 1896, B. Sc., Columbus, student, Columbus Normal School, 40 East Fifth avenue.
- Flynn, Oscar Rodgers, 1896, B. Sc., teacher in High School, Columbus.
- Foley, William J., 1894, D. V. M., Lexington, Ky.
- Ford, Ruth L., 1898, B. A., Ashtabula, teacher in High School.
- Ford, Stanley Hamer, 1898, B. Ph., 1st Lieut. in U. S. Army.
- \*Forgy, Ralph Morris, 1896, B. Ph., died March, 1899.

- Foster, Dudley Hampton, 1895, B. Ph., LL. B., attorney-at-law, Corning.
- Foster, Frank McMillan, 1894, M. E. in EE., with John N. Poage, Cincinnati, manufacturer water columns and valves.
- Foster, Israel Moore, 1898, LL. B., Athens.
- Foulk, Charles William, 1894, B. A., student, in Germany.
- Fowler, Harry R., 1894, M. E. in EE., Toledo, electrical contractor.
- Fox, Charles P., 1890, B. Agr., 1895, M. Agr., Columbus.
- Fox, Frederick Hugh, 1896, B. Ph., McConnelsville.
- Fox, John Herbert, 1897, M. E., Cleveland, Brown Hoisting Machine Co.
- Fox, Ross G., 1900, B. Ph., Columbus.
- Francis, Edward, 1894, B. Sc., M. D. (Ohio Medical College), Assistant Surgeon, U. S. Marine Hospital, Stapleton, S. I., N. Y.
- Francis, Mark, 1887, D. V. M., College Station, Brazos Co., Tex., professor of Veterinary Medicine, Agricultural and Mechanical College.
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- Fravel, George B., 1888, M. E., Road Foreman of Panhandle Lines, Cincinnati, O.
- Frayner, Lee Ambrose, 1896, M. E., Columbus, Rarig Engineering Co.
- Freeman, Stanton Sholes, 1898, E. M., St. Carbon Iron and Steel Co., Parryville, Pa.
- French, Thomas Ewing, 1895, M. E., Columbus, assistant professor of drawing, State University, 1458 Worthington street.
- Fritchle, Oliver Parker, 1896, B. Sc., Mt. Hope.
- Frost, George W., 1900, M. E., Columbus.
- Fullmer, Edward L., 1897, B. Sc., 1898, M. Sc., Mitchell, S. D., University of South Dakota, professor of sciences.
- Fullerton, Charles Haywood, 1898, B. Ph., Wheelersburg.

## G

- Gains, Charles E., 1889, B. Ph., London, physician.
- Galbraith, John Howard, 1883, B. Ph., Columbus, journalist, 1087 Oak street.
- Gale, Cora C., 1893, B. Ph., Columbus, Oak street, near Grant.
- Gale, Franklin Henry, 1893, LL. M. (LL. B., University of Michigan), Columbus, 324 Oak street.
- Gallen, William Francis, 1897, M. E., Columbus, Jeffrey Manufacturing Co.
- Game, Reed Haskell, 1896, B. Ph., 1899, LL. B., Columbus.
- Gamper, Hedwig E., 1900, B. Ph., Columbus.
- Gamper, Herman, 1899, M. E., Ingersoll-Sargent Drill Co., Easton, Pa.
- Gayman, Charles W., 1900, B. Ph., Van Wert, Principal of the High School.
- Garber, Alberta D., 1889, B. Ph., A. M.
- Garber, John Murray, 1897, C. E., Columbus, Mt. Vernon Bridge Co.
- Garber, Levi L., 1898, B. A., Belleville.
- Garst, William Augustus, A. B. (Otterbein University and Harvard University), 1898, LL. B., Westerville.
- Gee, Eugene C., 1897, M. E. in EE., Wheeling, W. Va., with Telephone Co.
- Gehrkins, Edward Frederick, 1894, M. E. in EE., Schenectady, N. Y., with General Electric Co.
- Geissinger, James Allen, 1895, B. A., Pastor Centenary M. E. Church, Ripley, Ohio.
- Genheimer, Eli Thomas, 1896, B. Ph., Portsmouth, teacher in High School.
- Genheimer, William F., 1897, LL. B., Portsmouth, attorney.
- Gibbs, George C., 1893, B. A., Columbus, with Green, Joyce & Co.
- Given, James Byron, 1896, M. E. in EE., Western Electric Co., Chicago, Ill.
- Givens, Newton Edgar, A. B., 1896, LL. B., Waverly.

- Glover, Sioux, 1882, B. Sc., Mrs. Horton, Errid, Pa.  
 Goddard, Loring Hapgood, 1892, C. E., farmer. Manora, O.  
 Good, Paul Revere, 1899, B. A., 1900, M. A., Westerville.  
 Goodell, Ralph Spencer, 1892, C. E., Mt. Vernon, Mt. Vernon Bridge Co.  
 Goodman, Joseph Clarence, 1896, LL. M., Columbus, 375 East Town street.  
 Goodman, Sylvester Jacob, 1896, G. Ph., Philadelphia, Pa., student of Medicine, W. & J., Medical College.  
 Gordon, Adelaide Cummins, 1896, B. Ph., Columbus.  
 Graham, Emery Eugene, 1898, M. E. in EE., Alliance, Morgan Engineering Co.  
 Grandle, Frank Albert, 1891, G. Ph., Centerburg, pharmacist.  
 Grate, Charles Artemis, 1898, M. E.  
 Graves, William L., 1893, B. A., 1897, M. A., assistant professor in Rhetoric, State University.  
 Gray, Genevieve, 1898, B. Ph., Columbus.  
 Gray, James Collam, 1892, LL. B., 1893, LL. M., Pittsburg, Pa., attorney P. R. Ry.  
 Graven, D. Homer (A. B., Ohio Normal University), 1900, LL. B., Nashville.  
 Green, Charles C., 1885, B. Sc., M. D., Beaver City, Neb., physician.  
 Green, Jerome Joseph, 1893, M. E. in EE., Notre Dame, Ind., Notre Dame University, professor of Physics and Elec. Engineering.  
 Green, Joseph Faust, 1899, M. E. in EE., Moline, Ill., electrical engineer, Moline Electric Elevator Co.  
 Green, Robert Lee, 1892, G. Ph., Somerset.  
 Gregg, Frank B., 1889, B. Ph., M. D.  
 Gregory, Hiram D., 1880, E. M., attorney-at-law, Covington, Ky.  
 Griffin, Mark H., 1897, M. E. in EE., Xenia, electrical engineer, Soldiers' and Sailors' Orphans' Home.  
 Griffin, Theodore L., 1889, B. Sc., M. Sc., Columbus, chemist, 760 Mt. Vernon avenue.  
 Griffith, David Mathias, 1896, LL. B., Kecksburg, Pa.  
 Griffith, Wellington John, 1892, LL. B., Tiffin.  
 Griffiths, Benjamin Lincoln, 1898, LL. B., Vaughnsville.  
 Grimsley, George Perry, 1890, B. A., 1891, M. A. (Ph. D., Johns Hopkins University, 1894), Topeka, Kan., professor Natural History, Washburn College.  
 Griswold, Lawrence William, 1892, B. A., New York City, London Assurance Co.  
 Groff, Orsylla Ann, 1894, G. Ph., North High street, Columbus, pharmacist.  
 Groff, Warren Noble, 1896, B. A., 1899, LL. B., Tiffin.  
 Groves, John Wesley, 1898, C. E., engineer for Sunday Creek Coal Co., Corning.  
 Gruen, Francis William, 1899, B. Ph., 1899, LL. B.  
 Guerin, Martha, 1896, B. Ph., Columbus.  
 Gugle, George Linville, 1896, LL. B., Columbus, attorney.  
 Gugle, Marie, 1897, B. A., Alexandria, Ind., teacher.  
 Guittard, Virgil, 1894, B. Sc., New Bedford.  
 Guitteau, William B., 1897, B. Ph., Toledo, teacher in High School.  
 Guss, Sherman Hamlin, 1892, B. A., Clarksburg, W. Va., principal of the colored schools.

## H

- Haas, Frank, 1895, C. E., 1896, E. M., Middlesboro, Ky., Virginia Iron, Coal and Coke Co.  
 Hagler, Howard, 1889, B. Sc., Washington C. H., farmer.  
 Haigler, Charles Edmund, 1898, B. Sc., Xenia, O.  
 Hale, Frederick James, 1898, M. E., 1900, M. Sc., Columbus.



- Hall, Harry R., 1889, E. M., Middlesboro, Ky., Virginia Coal, Iron and Coke Co.
- Halterman, Oscar Elmore, 1895, LL. B., B. S. (National Normal University).
- Hamilton, Charles R., 1893, B. A., Zanesville, Dun's Commercial Agency.
- Hamilton, Frank Alexander, 1895, D. V. M., Dubois, Pa., veterinary surgeon
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- Hammond, Harry J., 1900, D. V. M., Sharon Centre.
- Hammond, Rose Lyttle, 1896, B. Ph., Columbus, teacher, 90 North Twenty-second street.
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- Hancock, David R., 1889, G. Ph., M. D., Columbus, Physician.
- Haney, Thomas Carlyle, 1894, G. Ph., Columbus, pharmacist, corner Schiller and Third streets.
- Hannum, William Hamilton, 1897, B. A., India, missionary.
- Harbage, Arnett, 1893, D. V. M., West Jefferson, farmer.
- Harkins, Robert R., 1900, M. E. Columbus.
- Harlor, John David, 1895, B. A., Columbus, teacher in Central High School.
- Harper, Ellahue A. (B. A., Ohio Wesleyan University), 1900, LL. B., Columbus.
- Harris, Charles Pearl, 1899, B. Ph., West Liberty.
- Harris, Frank Laverne, 1894, LL. B. (Ph. B., Tri-State Normal University), Payne.
- Harris, Walter Conger, 1893, B. Sc., New York, with Art Department of Herald, 104 West 114th St.
- Harrison, Warner, 1892, LL. B., East Town street, Columbus, attorney and solicitor C., A. & C. Railway.
- Harrison, William Henry, 1885, C. E., Butte, Montana, assistant engineer Butte City Water Works.
- Harrold, Ernst Ellwood, 1895, G. Ph., dispenser chemical store-room, State University.
- Harrop, Herbert Bailey, 1898, B. Sc., Columbus, 1323 Forsythe avenue.
- Hartsough, William H., Jr., 1898, B. Ph., Columbus, 1356 Hunter avenue.
- Hartwell, Arthur, 1888, M. E., Chicago, Ill., manager Chicago office Westinghouse E. & M. Co.
- Hartwick, Louis M., 1897, M. E., Draftsman in Steel Works, Johnstown, Pa.
- Harvey, Arlington Corylle, 1896, B. Ph., 1897, M. A., 1899, LL. B., Columbus, 145 King avenue.
- Harvey, Emory Wayland, 1896, B. Ph., 11 East Sixteenth street, New York City, Milton Bradley Co.
- Harvey, Florence Danford, 1898, B. Ph., Mt. Perry.
- Harvey, Sherman Lee, 1896, G. Ph., Harrisburg, Druggist.
- Harward, Arthur B., 1900, B. A., Columbus.
- Hassler, Robert Hanich, 1892, M. E. in EE., electrical engineer, Indiana Bicycle Co., Indianapolis, Ind.
- Hastings, Edwin George, 1898, B. Sc., Austinburg.
- Hayes, Seth, 1892, B. Sc., Fremont, principal of High School.
- Hayman, William C., 1900, M. E. in EE., Holgate.
- Hayward, George E., 1893, C. E., New Philadelphia, surveyor of Tuscarawas county, Ohio.
- Hazelton, Bird, 1898, B. Ph., New Straitsville.
- Hazlett, Robert, Jr., 1887, C. E., Wheeling, W. Va., engineer for Ohio Company.
- Heacock, William Preston, 1898, LL. B., Cardington.
- Heath, Arthur T., 1887, G. Ph., Oak Harbor, analytic chemist, consulting engineer and contractor.
- Hebble, Charles Roy, 1896, M. E. in EE., Cincinnati, electrical engineer.



- Hedges, Harry, 1888, B. A.  
Heller, Albert Henry, 1890, C. E., Youngstown, Youngstown Bridge Co.  
Henderson, Adelbert Andrew, 1898, C. E., Columbus, City Engineer Corps.  
Henretta, Charles Michael, 1896, E. M., Buffalo, engineer J. W. Ellsworth Coal Co.  
Herbert, Charles T., 1897, LL. B., Columbia, South America.  
Hermes, Edith S., 1898, B. Ph., Portsmouth.  
Herrick, Louise, 1893, B. A. (Mrs. Harry Abbott), Columbus, 1454 Highland St.  
Hershey, Harry Hartman (A. B., Mt. Union College) 1900, LL. B., East Greenville.  
Hertner, John H., 1899, M. E. in EE., Dayton.  
Hess, Florence Louise, 1895, B. Ph., Columbus.  
Hewitt, Strafford Reaves, 1898, M. E. in EE., Columbus Belting and Packing Co.  
Hiatt, William Arthur, 1895, B. Ph., New York City, teacher in Stevens School, Hoboken, N. J.  
Higbee, Charles E., 1883, B. Sc.  
High, Odessa, 1896, B. A., West Jefferson.  
Hill, Frank E., 1886, B. Sc., M. D., Muncie, Ind.  
Hill, I. T. Reynolds, 1896, B. Sc. (H. & F.), Toledo, O., paymaster for Woolson Spice Co.  
Hine, James S., 1893, B. Sc., Columbus, assistant professor of Entomology, State University.  
Hine, Lucius A., 1888, E. M., 140 50th street, Chicago, Ill., President and Treasurer Hine-Watt Manufacturing Co.  
Hipple, John Merton, 1898, M. E. in EE., Westinghouse E. & M. Co., Wilkesburg, Pa.  
Hirsch, Gustav, 1897, M. E. in EE., Columbus, engineer, Citizen's Telephone Co.  
Hirst, Anna Brewster, B. A. (Antioch College), 1900, M. A., Yellow Springs.  
Hoel, Sarah Elizabeth, 1893, B. Sc. (Mrs. W. M. Mills), North Tonawanda, N. Y.  
Hoffman, Arthur Sullivant, 1897, B. A., Troy.  
Hoffman, Hattie D., 1900, B. Ph., Columbus.  
Homan, Frank, 1895, C. E., Cannelton, W. Va., Raven Coal and Coke Co.  
Hood, Sherman, 1894, B. Sc., Meander, gardner.  
Hoover, Frederic Roland, 1899, B. Ph., Columbus.  
Hopkins, Charles Delnow, 1893, LL. B. (B. A., Ohio Wesleyan University), Athens.  
Horton, Henry Pomeroy, 1889, B. Ph.  
Hough, Benson Walker, 1899, LL. B., Delaware.  
Houseman, Ruth U., 1897, B. Ph., Painesville, teacher in High School.  
Houston, Anna Christine, 1892, B. Ph., 1895, M. A., Marysville.  
Hovey, Clark Samuel, B. A. (Buchtell College), 1898, LL. B.,  
Howald, Ferdinand, 1878, B. Sc., Rush Run, W. Va., manager of mining operations.  
Howard, A. B., 1883, B. Ph., Jackson, Miss., clergyman.  
Howard, Anna F., 1900, B. Ph., Columbus, 307 West Seventh avenue.  
Howard, Curtis C., 1878, B. Sc., M. Sc., 115 Jefferson avenue, Columbus, professor of Chemistry in Starling Medical College.  
Howard, Fanny Fern, 1896, B. A., Columbus.  
Howard, Edward Davenport, 1894, LL. B., 1896, LL. M., Columbus, attorney.  
Howard, John Wilmot, 1895, B. Sc., Columbus, assistant secretary, Board of Trade.  
Howells, E. S., 1884, E. M., Massillon, Howells Mining Company.  
Howells, Thomas J., 1897, E. M., Steubenville, O., Mingo Works National Steel Co., Mingo Junction, O.

- Hubbard, Ralph Newton, 1891, B. Sc., Columbus, Columbus Machine Co.  
 Hughes, Raymond Mollyneaux, A. B. (Miami University), 1897, M. Sc., Miami University, professor of Chemistry.  
 Huddleson, Don Carlos, 1897, G. Ph., Columbus, assistant in Gymnasium, State University.  
 Huffman, Lillian Stuart, 1899, B. Ph., Columbus, 389 East Rich St.  
 Huggins, Burch Delaplaine, 1899 B. Ph., Hillsboro.  
 Hull, Mary Louise, 1894, B. A. (Mrs. C. H. Farber), Columbus, 392 West Seventh avenue.  
 Humphrey, J. Scott, 1879, B. Sc., Findlay, civil engineer.  
 Humphreys, Leona, 1895, B. A., Plain City, teacher in High School.  
 Hunt, William Franklin, 1887, M. E., attorney-at-law, New York Life Building, St. Paul, Minn.  
 Hunter, Madone C., 1900, M. E. in EE., Salt Creek.  
 Huntington, Arthur, 1899, M. E., Turtle Creek, Pa., Westinghouse Electric Manufacturing Co.  
 Huston, Charles H., 1897, LL. B. (B. S., Tri-State College, Ind.), Mansfield.  
 Hyde, Wilby Grimes, 1887, B. A. (LL. B., Cincinnati), Chillicothe, attorney-at-law  
 Hyle, Charles A., 1896, M. E. in EE., U. S. Weather Bureau, Mt. Tamalpais, California.

## I

- Imes, Marion, 1899, B. Sc. (Agr.), Durham, N. H., New Hampshire State College, student.  
 Ingram, Imogene, 1897, B. Ph., Columbus.  
 Innis, Lyman H., 1893, B. A., 1895, LL. B., Columbus, attorney, 323½ South High.  
 Ireland, Guy Llewellyn, 1895, M. E.  
 Irvin, Chadwick H., 1897, M. E., Lima, Draftsman, The Solar Refining Co.

## J

- Jackson, Frank Pierce, 1892, LL. B., 1893, LL. M., Columbus, attorney, 82 South Washington avenue.  
 James, Florence May, 1896, B. A. (Mrs. Oscar R. Flynn), Chicago, Ill.  
 Jaynes, Allan B., 1900, Washington, D. C., Census Department.  
 Jeffrey, James Fred, 1900, B. Sc., Columbus.  
 Jeffrey, Maud Dorothy, 1895, B. Ph., assistant in library, State University.  
 Jenkins, William B., 1893, C. E., Bellefontaine, District Agent Interstate Savings Investment Co.  
 Jenkins, Willis H., 1894, C. E., Columbus, Transitman, P., C., C. & St. L. Ry.  
 Jennings, Irvin G., 1899, LL. B., Zanesville.  
 Jennings, Levi E., 1897, M. E. in EE., Indianapolis, Ind., Central Union Telephone Co.  
 Johnson, Charles W., 1896, M. E. in EE., Norwood, Cincinnati, chief draughtsman Bullock Electric Mfg. Co.  
 Johnson, Earle S., 1900, M. E. in EE., Plants.  
 Johnson, George Edward, 1892, C. E., L. & N. R. R., Louisville, Ky.  
 Johnson, Herbert Lincoln R., 1892, M. E. in EE.  
 Johnston, Frederick Symmes, 1899, B. Sc. (Agr.), Durham, N. H., assistant professor of Agriculture, New Hampshire State College.  
 \*Jones, A. A., 1886, C. E., died May, 1894.  
 Jones, Arthur James, 1898, M. E. in EE., Turtle Creek, Pa., Westinghouse Electric and Manufacturing Company.

- Jones, Aaron Wesley, 1891, B. Sc., Columbus, Gardner Insurance Agency.  
 Jones, Alexander Houston, 1895, M. E. in EE.  
 Jones, Benner, 1897, LL. B., Jackson.  
 Jones, Daniel D., 1893, G. Ph., Gallipolis, pharmacist, Epileptic Hospital.  
 Jones, Jesse Lee, 1890, B. A., Philadelphia, Pa., chemist, William Cramp & Sons, Ship Builders.  
 Jones, Paul, 1880, B. A., Columbus, attorney-at-law.  
 Jones, Pearl N., 1892, M. E. in EE., Pittsburg, Pa., engineer and salesman, Westinghouse E. & M. Co.  
 Jones, Richard Thomas, 1900, B. Ph., Columbus.  
 Jones, Smiley, 1894, E. M., Prescott, A. T.  
 Jones, William Francis, 1896, D. V. M., Cincinnati, Miami Medical College.  
 Judd, Horace, 1897, M. E., 1899, M. Sc., Brooklyn, N. Y., Instructor, Pratt Institute.  
 Judkins, Clyde H., 1897, LL. B. (A. B., Scio College), Flushing.  
 Junk, Harry Prior, 1895, LL. B., Columbus, attorney-at-law, 387 Oak street.

## K

- Kanmacher, Samuel H., 1900, M. E. in EE., Columbus, Superintendent Empire Gold Mining and Milling Company.  
 Karshner, George M., 1900., B. A., Columbus, student, O. S. U. Law College.  
 Keagle, Anna Brown, 1895, B. Ph., Columbus, teacher North High School, 59 West Fourth avenue.  
 Keating, David Thatcher, 1899, B. Ph., Columbus, 1317 East Broad street.  
 Keffler, Frederick, 1892, M. E., Anaconda, British Columbia, General Manager the British Columbia Copper Co., Ltd.  
 Keifer, William White, 1886, B. A. (LL. B., Cincinnati), Springfield, attorney-at-law.  
 Keiser, Romeo Orpheus, 1892, B. Sc., 1896, G. Ph., '98, M. D., O. M. U., '99 M. D., Cleveland Homeopathic Medical College, physician, Columbus.  
 Kellerman, Ivy, 1898, B. A., 1899, M. A. (Cornell University), Ithaca, N. Y., student, Cornell University.  
 Kellicott, William E., 1898, B. Ph., Columbia University, New York.  
 Kellison, Edward Lafayette, 1897, B. Ph., 1900, LL. B., Quincy.  
 Kemmler, Edward A., 1888, C. E., 895 S. High street, Columbus, assistant city engineer.  
 Kerr, Samuel Thompson, 1894, M. E. in EE., Martins Ferry, superintendent Municipal Electric Light Plant.  
 Kersey, William Rufus, 1899, M. A. (B. A., Earlham College), Columbus, 433 East Town street.  
 Kershaw, Francis Stewart, 1891, B. Ph., Boston, Mass.  
 Kershaw, Samuel Charles, 1892, B. Ph., Columbus, book-keeper, Columbus Bolt Works.  
 Kester, Fred. Edward, 1895, M. E. in EE., Columbus, assistant in Physics, Ohio State University.  
 Kieseewetter, Louis Frank, 1891, C. E. (A. B., Harvard, '92, and A. M., '93), Columbus, Cashier Ohio National Bank.  
 Kiler, Abdel William, 1896, G. Ph., druggist, Columbus, Eighth and High streets.  
 Kinder, Gordon D., 1900, B. Ph., Ottawa.  
 Kimberley, Charles H., 1900, B. Sc., Pharmacy, Columbus.  
 King, Robert James, 1899, B. A., Zanesville.  
 Kirby, Harriet R., 1898, B. A., Columbus, teacher in North High School.



- Kirker, Harry L., 1889, B. Sc., with the Westinghouse Company, Sodelee Boite 56, Havre, France.
- Kiser, Katherine Daniel, 1895, B. A., Columbus, teacher in High School.
- Klein, David, 1900, B. Ph., Columbus.
- Kline, Charles H., 1897, M. E. in EE., Dayton, city engineer and deputy county surveyor.
- Knauss, William Henry, 1895, B. Sc., student, Starling Medical College, 1317 Dennison avenue.
- Knecht, Arthur Edward, 1898, M. E., Akron, Stirling Company, Barberton, O.
- Knight, Caroline E., 1900, B. Ph., Columbus.
- Knight, Ruby Ray, 1895, B. Sc., Middleport.
- Knight, William A., 1900, M. E., Columbus, instructor in shopwork, State University.
- Knopf, Eva S., 1895, B. Ph., Columbus, teacher in North High School.
- Knopf, George W., 1883, B. Sc., Pittsburg, Pa., bridge builder.
- Knox, Frank Stewart, 1900, E. M., Columbus.
- Kohr, Donald Alexis, 1898, B. Ph., Westerville.
- Krauss, Bertha Katherine, 1892, B. Ph., Ottawa.
- Kreiger, Charles Henry, 1887, G. Ph., Columbus, superintendent the Kauffman-Lattimer Co.
- Krumm, Charles S. M., 1896, B. Ph., 1898, LL. B., Columbus, attorney, 277 South Eighteenth street.
- Krumm, Herbert Zettler, 1898, B. Ph., Columbus, 975 South High street.
- Krumm, Lillian Louise, 1895, B. Ph. (Mrs. Harry Rush Wilson), Columbus, 1459 Bryden Road.
- Krumm, Louis Ralph, 1898, M. E. in EE., Engineering Department Central Union Telephone Co., Chicago, Ill.
- Krupp, William Emil, 1899, LL. B., Urichsville.
- Kuhn, Valley Howard, 1896, M. E. in EE., Etna.
- Kuhn, Harry Waldo, 1897, B. Sc., graduate student, Cornell University.

## L

- Lamb, Whitney E., 1900, M. E., in EE., Commercial Point.
- Lamme, Benjamin G., 1888, M. E., Pittsburg, Pa., engineer, Westinghouse E. & M. Co.
- Lamme, Bertha A., 1893, M. E. in EE., Pittsburg, Pa., Westinghouse E. & M. Co.
- Landacre, Francis Leroy, 1895, B. A., assistant professor of Zoology and Entomology, State University.
- Landacre, Walter Alexander, 1891, G. Ph., Columbus, assistant professor of pharmacy.
- Landis, Walter Victor Titus, 1895, B. Ph., Dayton.
- Lane, Quinton R., 1898, B. Ph., 1900, LL. B., Attorney, Columbus.
- Large, Joseph H., 1890, C. E., Whigville, O.
- Laughlin, Hugh Clarence, 1890, B. A. (A. M., 1895, University of Nebraska), 1712 Bathgate avenue, New York, teacher in High School for Boys and Girls.
- Lavery, William F., 1890, D. V. M., veterinary surgeon, State University.
- Lawrence, Arthur K., 1897, G. Ph., Columbus, 69 North Seventeenth street, Pharmacist.
- Layton, Roy Everett, 1895, B. A., 1897, LL. B., Wapakoneta, attorney.
- Lee, Corless E., 1900, M. E. in EE., Speidel.
- Lee, Edwin S., 1893, G. Ph., Columbus, druggist, 144 West Ninth avenue.
- Lee, Robert M., 1897, M. E., Columbus.



- Leffler, Edward Victor, 1896, G. Ph., Leipsic.
- Lehman, John Wesley, 1899, B. Ph., Canal Winchester.
- Lemert, Helen Ora, 1894, B. A., Columbus, teacher High School, 81 Twenty-second street.
- Lentz, Alice B., 1897, B. Ph., Lloydsville.
- Lentz, Theresa, 1893, B. Ph., Bellaire, teacher in High School.
- Leonard, James Lincoln, 1893, LL. B. (B. S., Ohio Normal University), Welcome.
- Levering, Orpheus D., 1893, M. E.
- Lewis, Charles Montgomery, 1881, B. A., Columbus, with Columbus Evening Dispatch.
- Lewis, Thomas K., 1894, B. Sc., Columbus, assistant in drawing State University.
- Lincoln, Paul Martyn, 1892, M. E. in EE., Niagara, N. Y., assistant superintendent Niagara Falls Power Co.
- Lindo, William C., 1896, C. E., Port Antonio, Jamaica, W. I., civil engineer.
- Linebaugh, Jesse J., 1899, M. E. in EE., Schenectady, N. Y., General Electric Co.
- Linson, Irvin, 1882, B. A.
- Linville, Clarence P., 1900, B. Sc., Chemistry, Columbus, Fellow in Chemistry.
- Lisle, Charles H., 1900, B. Ph., Pataskala.
- Lisle, Dallas Gypsi, 1899, B. Ph., Ashland, Ky.
- Lisle, Leslie Mae, 1899, B. Ph., Columbus.
- Logan, Lavallette Lasea, 1896, E. M., Scranton, Pa., professor mine surveying, National Correspondence School.
- Logsdon, Carey Lignori, 1899, B. Ph., Columbus.
- Logsdon, Clement Jay, 1898, G. Ph., Newark, with Dr. J. H. Beatty.
- Loomis, John Cooper, 1898, LL. B., Tiffin.
- Lott, Charles Milford, 1895, M. E. in EE., Paulding, Supt. Electric Light Plant.
- Loveberry, Clarence, 1896, D. V. M.
- Lovejoy, Ellis, 1885, E. M., Union Furnace, chemist and superintendent Columbus Brick and Terra Cotta Co.
- Lovejoy, Jesse R., 1884, B. Sc., Schenectady, N. Y., with General Electric Light Co.
- Luce, George Ernest, 1897, LL. B. (A. B., Ohio Wesleyan University), Columbus, 95 Hamilton avenue.
- Luse, Clara E., 1897, B. Ph., Mrs. Herbert Scott, Columbus.
- Lusk, William Vinton, 1893, D. V. M., Ft. Wingate, New Mexico, veterinary surgeon, Ind. cavalry.
- Lydenberg, Walter B., 1898, B. A., Dayton.
- Lynas, Caroline, 1898, B. A., Columbus, 109 West Gay street.
- Lynas, Charles E., 1898, B. A., Columbus, 109 West Gay street.
- Lyon, Arthur H., 1900, M. E., Wauseon.

## M

- Maag, Benjamin Franklin, 1899, M. Sc. (B. Ph., Wooster University), Mt. Eaton.
- MacGuire, Charles White, 1895, G. Ph., '97, M. D., Toledo Medical College, Toledo, Ohio.
- Machwart, Washington J., B. Sc. (Muskingum College), 1900, M. A., Mt. Eaton.
- Mackey, Ure LaVerne, 1893, M. E. in EE. (B. A., Wooster University).
- Magly, Robert A., 1897, G. Ph., 1896, LL. M., chemist, Bessie Iron Furance, O.
- Magruder, Leonard Anthony, 1895, B. Ph., 1896, LL. M.

- Maier, John Valentine, 1895, LL. B. (B. S., Northern Indiana Normal University).
- Malone, William Ruskin, 1885, B. A., Toledo, with New York Life Insurance Co.
- Manecke, Gilbert, 1897, LL. B., Fostoria.
- Manley, Rush Emmett, 1894, M. E. in EE., manager of Exchange Central Union Telephone Co., Mt. Vernon.
- Mann, Wilber Edwin, 1899, B. Ph., 1900, M. A., Columbus.
- Marple, Charles Allen, 1885, B. Sc., Louisville, Ky., teacher of Science, Male High School.
- Marquard, Frank Fred, B. L., 1896, C. E., Sharon, Pa., chemist, National Co.
- Marshall, George Sidney, 1894, B. Ph., 1897, LL. B., Columbus, attorney, Second Assistant Director of Law, 1566 Neil avenue.
- Marshall, William B., 1900, M. E. in EE., Columbus.
- Martell, Leonard Roland, 1898, B. A., Columbus, 1665 South High street.
- Martin, Edwin Dunlevy, 1891, B. Ph., Lee Centre, Ill., teacher.
- Martin, George, 1897, M. E. in EE., Massillon, Central Union Telephone Co.
- Martin, Percy, 1892, M. E. in EE., Milan, Italy, Mediterranean Electric Co.
- Marvin, Charles Frederick, 1883, M. E., Washington, D. C., U. S. Weather Bureau.
- Mason, George F., 1890, G. Ph., Milwaukee, Wis., student of medicine, Milwaukee Medical College.
- Masters, George Albert, 1886, C. E., Chicago, Ill., Western Library Association.
- Mathers, John Harrison, 1895, B. Ph., Conover.
- Mathias, Frederick W., 1893, B. Sc., Toledo, teacher High School.
- Matson, George H., 1892, G. Ph., 169 Hamilton avenue, Columbus, professor of Pharmacy, Ohio Medical University.
- Matson, William Edgar, 1896, M. E. in EE., Lynn, Mass., with General Electric Co.
- Mauer, George Clifford, 1892, D. V. M., Oak Harbor, veterinarian.
- Mays, James Wesley, 1897, B. Ph., Columbus, student in College of Law, State University.
- McAllen, William Johnson, 1894, C. E., engineer, Chicago, Ill., Illinois Steel Co.
- McCall, Arthur Gillett, 1900, B. Sc. (Agr.), McGaw.
- McCallum, Raymond, 1900, B. Ph., Dayton.
- McCarter, Edward Bancroft, 1892, B. A., 1894, LL. B., Columbus, attorney, 737 Bryden Road.
- McCarter, Flora, 1897, B. A., Columbus.
- McCarter, Robert Dale, Jr., 1895, M. E. in EE., London, England, representing General Electric Co.
- McCleary, Clayton A. (Ph. B. Franklin College) 1900, LL. B., Lorain.
- McClelland, Chalmer Kirk, 1898, B. Sc. (Agr.), Andover.
- McClure, Robert E., 1900, LL. B., Dayton.
- McCormick, J. H., 1880, M. E., Dayton, National Cash Register Co.
- McCormick, William Francis, 1896, M. E., Columbus, Cleveland avenue.
- McCulloch, George Elmer, 1891, B. Sc.
- McDowell, John Andrew, 1882, B. Sc., 949 Neil avenue, Columbus, cement engineer.
- McFadden, John Franklin, 1878, B. A., Columbus, attorney-at-law, 92 North Twenty-first street.
- McGregor, James Howard, 1894, B. Sc., New York, assistant in Zoology, Columbia University.
- McGrew, John Alexander, 1895, C. E., M. of W., Pennsylvania Railroad Co., Logansport, Ind.

- McGuffey, Francis Hoyt, 1894, M. E. in EE., New Lexington, O., U. S. Telephone Co.
- McIntire, Alfred Heber, 1898, M. E. in EE., 1900, M. E., Schenectady, N. Y., General Electric Co.
- McLaughlin, Annis, 1897, B. Ph., Columbus.
- McLaughlin, James Audley, 1895, LL. B. (B. A., Monmouth College).
- \*McMakin, Amasa Brown, 1879, B. Sc., died May 22, 1891.
- McNary, George Bull, Jr., 1896, M. E. in EE., Toledo, with Bissel & Co.
- McPherson, William, 1887, B. Sc., 1891, M. Sc., 1895, D. Sc., 1899, Ph. D., University of Chicago, Columbus, State University, professor of Chemistry.
- Mead, Clinton V., 1884, B. Ph., Denver, Col., attorney-at-law.
- Mead, Rollo Nooman, 1895, D. V. M., Grand Rapids.
- Mebs, George H., 1897, G. Ph., Columbus, Pharmacist, Columbus State Hospital.
- Meek, Charles Wesley, 1894, LL. B., Toledo.
- Meek, Edward Duncan, 1896, B. A., 1899, M. A. Glencoe.
- Meek, William W., 1899, B. Ph., 121 Fifteenth avenue, Columbus, J. W. Meek & Co.
- Mendenhall, Maurice H., 1893, D. V. M., West Elkton.
- Menough, Arthur George, 1894, E. M., Apartado 17, Zacatecas, Mexico, assayer and chemist.
- Mercer, Frank Emmet, 1896, M. E. in EE., Lima, Ohio.
- Merrill, Alice Louise, 1893, B. A., 6565 Yale ave., Chicago, Ill., Station O, teacher.
- Merrill, Charles Wesley, A. B. (Denison University), 1898, LL. B., 326-330 The Nasby, Toledo, attorney.
- Mershon, Ralph D., 1890, M. E., New York office Westinghouse E. & M. Co.
- Mesloh, Charles W., 1889, B. A., 1895, M. A., assistant professor of German, State University.
- \*Metters, Allen, 1896, B. A., died January 22, 1898.
- Metzger, Edward H., 1897, G. Ph., Columbus, assistant pharmacist, State Epileptic Hospital.
- Mickey, Blanche D., 1898, B. Ph., Shelby, teacher.
- Middleswart, Clarence Coulter, A. B. (Marietta College), 1898, LL. B., Constitution.
- Middleton, Ambrose, 1895, G. Ph., Malta, pharmacist.
- Miller, Carl James, 1898, B. Sc. (Agr.), Franklin.
- Miller, Charles C., 1883, B. A., Lima, superintendent schools.
- Miller, Daniel Elmer, 1890, G. Ph., Dayton, druggist.
- Miller, Frank Case, 1893, C. E., Dwight, Ill., Supervisor, Chicago and Alton R. R.
- Miller, Gretchen P., 1900, B. Ph., Columbus.
- Miller, Harry Franklin, 1889, M. E., South Bethlehem, Pa.
- Miller, Henry P., 1897, D. V. M. Sunbury.
- Miller, Merritt Finley, 1900, B. Sc. (Agr.) Ridpath.
- Miller, Walter McNab, B. Sc., 1885, Reno, Nev., professor of Anatomy and Physiology, State University.
- \*Milligan, James Porter, 1886, B. A., died, February, 1899.
- Mills, William C., 1898, B. Sc. (H. & F.), Columbus, curator Archæological collection, State University.
- Milne, Alexander, B. D. (Yale University), 1898, M. A., Duluth, Minn., pastor Pilgrim Congregational Church.
- Mix, Edward W., 1888, B. Sc., Paris, France, superintendent "Le Societi des Establishments."



- Mix, Melvin Noble, 1895, B. Ph., New York, The World, journalist.
- Mock, George Herbert, 1891, B. Sc., Ohio State Savings Bank, Columbus.
- Montgomery, Howard, 1896, B. Ph.
- Moodie, Alice Haynes, 1890, B. A., Mrs. Arthur Hartwell, Chicago, Ill.
- Moon, Victor C., 1900, B. Ph., Columbus.
- Mooney, Charles Napoleon, 1900, B. Sc. (Agr.) Milan.
- Mooney, Daniel Francis, 1894, LL. B., St. Mary's.
- Moore, Edgar Howard, 1900, B. Sc., Columbus.
- Moore, Henry Curtis, 1897, B. Sc., Washington C. H.
- Moore, Virgil Owen, 1895, B. Sc., M. D., Toledo, 710 Starr ave., physician.
- Morhart, Katherine Elizabeth, 1893, B. Ph., Pomeroy.
- Morrey, Annie Eliza, 1896, B. A., Chester Hill.
- Morrey, Charles B., 1890, B. A., 1896, M. D., Columbus, assistant professor  
Physiology, State University.
- Morrey, William T., 1888, B. A.
- Morris, Ingle H., 1900, LL. B., Columbus.
- Morris, Clyde T., 1898, C. E., Youngstown, Youngstown Bridge Co.
- Morrison, M. Frank, 1879, B. A., Mrs. S. H. Short, London, England.
- Morrison, Robt. O., 1893, C. E., assistant on engineer corps, Erie and Ashtabula  
division of Pennsylvania Lines west of Pittsburg.
- Morrow, Charles James, 1900, D. V. M., Tiro.
- Morton, George L., 1884, M. E. (LL. B., National Law School), chief examiner,  
patent office, Washington, D. C.
- Moses, Martha Allston, 1891, B. Ph., 1111 Hinman ave., Evanston, Ill., book-  
keeper.
- Moss, Blanche, 1893, B. A., Columbus.
- Moss, William, 1898, G. Ph., Cambridge, O., Pharmacist.
- Moyer, Henry E., 1893, B. Sc., Youngstown, chemist, Youngstown Steel Co.
- Mull, Bert LaForrest, 1898, LL. B., Columbus, 114 Herman street.
- Mullay, Annie, 1887, B. Ph., Chicago, teacher.
- Mundhenk, Fred., 1896, B. Ph., Columbus, life insurance agent, 233 North  
Eleventh avenue.
- Mundhenk, Herbert C., 1889, B. Ph., Brookville.
- Mundhenk, Ruth, 1899, B. Ph., Dayton.
- Munn, Mortimer Adam, 1894, C. E., Cleveland, Cleveland & Eastern Ry. Co.
- Munson, Theodore, 1898, B. Sc., Zanesville.
- Murray, Claude R., 1895, B. A., Middleport, principal of High School.
- Murray, Frank Erskine, 1892, D. V. M., Greenfield, veterinary surgeon.
- Myers, Albert B., 1900, E. M., Columbus.
- Myers, Joseph Simmons, 1887, B. A., Pittsburg, editor Pittsburg Post.
- Myers, Ord, 1895, M. E. in EE., inspector Metropolitan St. Ry. Co., New York.
- Myers, Roy V., 1893, C. E., Dayton, Tenn., Dayton Coal and Iron Co., Ltd.
- Myers, Uriah H., 1887, E. M., Pittsburg, Pa., Myers, Shinkle & Co.

## N

- Nagel, William G., 1895, M. E. in EE., Toledo, W. G. Nagel & Co., electrical  
supplies.
- Needham, Harry J., 1900, M. E., Columbus.
- Needles, Mana R., 1890, B. Ph. (Mrs. Kilpatrick), Owosso, Mich.
- Nettleton, Arthur Warren, 1898, B. Sc. (Agr.), Medina.
- Newton, Henry S., 1889, B. Sc., Syracuse, N. Y., general manager Syracuse,  
Lakeside and Baldwinsville Ry.
- Newton, Samuel Donald, 1895, C. E., engineer on Southern R. R., Knoxville,  
Tenn.



- Nichol, Gertrude Belle, 1899, B. Ph., Columbus.  
 Nicholson, Charles M., 1900, M. E. in EE., Columbus.  
 Nicola, Benjamin Di, 1900, LL. B., Barnhill.  
 Niewvahrner, John Henry, 1891, B. A., Jackson, assistant cashier, First National Bank.  
 Noble, W. F., 1879, B. A., Tiffin, attorney-at-law.  
 Nold, John H., 1900, E. M., Columbus.  
 Nurian, Kerson, 1899, M. E., Turtle Creek, Pa., Westinghouse E. & M. Co.  
 Nutt, Arthur Chase, 1897, B. Ph., Worcester, Mass., instructor in English and German, Worcester Polytechnic Institute.

## O

- Obetz, Francis Henry, 1896, G. Ph., '99, M. D., Starling Medical College, Columbus, physician.  
 O'Brine, David, 1881, B. Sc., M. Sc., E. M., D. Sc., M. D., Urbana, physician.  
 Odebrecht, August, 1895, G. Ph., Columbus, with H. Braun & Sons.  
 O'Kane, Sarah Eliza, 1891, B. Ph. (Mrs. F. M. Raymond), 215 West Tenth ave., Columbus.  
 O'Kane, Walter Collins, 1897, B. O., Troy, journalist.  
 Orton, Clara Gregory, 1897, B. Ph., Columbus, 100 North Twentieth street.  
 Orton, Edward Jr., 1894, E. M., Columbus, director of the department of Clay-working and Ceramics, State University.  
 Orton, Walter Edwin, 1899, LL. B., Williamstown, Mass.  
 Osborn, Abner A., 1900, B. Sc., Columbus.  
 Osborn, Samuel Galloway, 1897, LL. B., Columbus, attorney, 275 East State street.  
 Osborn, Raymond Carroll, 1898, B. Sc., 1900, M. Sc., Columbus.  
 Ozias, Albert N., 1889, M. Sc., Principal High School, Minneapolis, Minn.

## P

- Pabodie, Robert Jewett, 1899, M. E., Watertown, N. Y., Watertown Steam Engine Company.  
 Page, William Herbert, 1892, LL. B., 1894, LL. M. (B. A., Yale), Columbus, professor of Elementary Law, State University.  
 Palmer, Walter K., 1893, M. E., State University, Lawrence, Kan., associate professor, Department of Mechanical Engineering, University of Kansas.  
 Parker, John Bernard, 1898, B. A., 1900, M. A., Danville.  
 Parmenter, William W., 1900, B. A., Mt. Vernon.  
 Patch, Homer Austin, 1896, C. E., Minneapolis, Minn., Draftsman, Gillette-Herzog Manufacturing Co.  
 Patchell, Owen P., 1889, B. Ph., Paul's Valley, Indian Ter., attorney-at-law.  
 Patchin, Rufus Harry, 1898, LL. B., Chardon, attorney-at-law.  
 Payne, Halbert Edwin, 1887, M. E., 256 Broadway, New York City, American Typewriter Co.  
 Peal, Allen Saunders, 1895, B. A., Chicago, Ill.  
 Pearce, George Downer, 1892, G. Ph., Pharmacist, South Charleston.  
 Pearl, Allen Sexton, 1894, M. E. in EE., Columbus, O., representative of Central Electric Company.  
 Pease, Edward Livingstone, 1895, B. A., 1899, LL. B., Columbus, 30 Monroe avenue.  
 Pedlow, Edward Benjamin, 1893, C. E., New Straitsville, superintendent Columbus and Hocking Coal and Iron Co.

- Peppel, Samuel Vernon, 1899, B. Sc. (Chem.), Madison, Wis., Wisconsin Geological Survey, assistant in Ceramics, State University, Columbus.
- Pence, David Arrel 1894, M. E., Lowellville.
- Perkins, Earl Harley, 1893, LL. B., Wellington.
- Peters, William Lincoln, 1885, M. E., Riverside, Cal., merchant.
- Pfarr, Philip Lewis, 1896, B. Sc. (Agr.), Dennison, Iowa.
- Phelps, Cyrus Alba, 1892, B. Sc., Sombereto, Jacataccas, Mexico, with Sombereto Mining and Milling Co.
- Pierce, John Mattison, 1895, M. E. in EE., South Charleston.
- Pilcher, Hastings Moore, 1895, M. E. in EE., Athens, telegraph operator and billing clerk.
- Pitts, Grace Lenore, 1900, B. Ph., Columbus, graduate student, State University.
- Plantz, Wyatt Garfield, 1894, B. A., Pomeroy.
- Pleukharp, Chas. V., 1885, M. E., Lacanada, California.
- Plimmer, Gertrude Alice, 1896, B. Ph., Columbus, 1188 Oak street.
- Polk, Walter C., 1895, C. E., Indianapolis, Ind., assistant general foreman, Central Union Telephone Co.
- Pomerene, Frank Etherington, 1891, B. Ph., 1895, LL. B., Coshocton, attorney-at-law.
- Pool, Harwood Redington, 1881, B. Ph., LL. B., 62 Cedar street, New York City.
- Porter, Mary Baxter, 1897, B. Ph.
- Postle, Herman R., 1894, C. E., Joplin, Mo., civil engineer.
- Postle, Kenneth F., 1894, B. A., Lancaster, Ky., teacher.
- Powell, Chas. S., 1893, M. E. in EE., Cleveland, representing Westinghouse E. & M. Co.
- Powell, Edward Thompson, 1896, LL. B., Columbus, attorney, 518 East Broad street.
- Powell, Norman Clemson, 1895, D. V. M., Damascus.
- Prall, Anna Dickson, 1898, B. A., Columbus.
- Pratt, Fred K., 1900, C. E., New Philadelphia.
- Price, Homer Charles, 1897, B. Sc. (Agr.), assistant horticulturist, O. S. U.
- Priest, Frederick, 1895, D. V. M., Newark, veterinary surgeon.
- Pryor, Charles Foster, 1898, LL. B., Columbus.
- Pugh, Lawrence Randolph Whetzel, 1893, B. Ph., 1895, LL. B., Columbus, attorney-at-law, 13 Board of Trade.
- Pulling, Margaret G., 1900, B. Ph., Columbus.
- Pumphrey, John Homer, 1898, B. Sc., Clayton.
- Putnam, Abbey Slocum, 1897, B. Ph., Fisher, Ill.

## R

- Radcliff, Charles Anson, 1895, B. Ph., attorney, Jackson.
- Randall, Emilius Oviatt, 1892, LL. M. (B. Ph., Cornell University), Columbus, attorney-at-law, professor in Law School, State University.
- Randolph, Edward S., 1897, LL. B. (A. B., Ohio Wesleyan University), Somerset.
- Rane, Frank William, 1891, B. Agr. (1892, M. Sc., Cornell), Durham, N. H., professor of Horticulture, New Hampshire College.
- Rarick, Murray M., 1896, B. Sc. (Agr.), Jacksontown, physician.
- Rasor, Samuel Eugene, 1898, B. Sc., College Springs, Iowa, Professor of Mathematics, Amity College.
- Rawson, Levi, 1899, C. E., Sistersville, W. Va., Carter Oil Co.
- Ray, Frank A., 1887, E. M., Columbus, professor of mine engineering, State University.

- Ray, William M., 1893, C. E., room 825, Hickox Building, Cleveland, C. L. & W. R. R.
- Raymond, Coles Abel, 1894, C. E., Wauseon, bridge draughtsman.
- Raymond, Frank M., 1888, B. A., Columbus, attorney-at-law, 215 West Tenth avenue.
- Raymond, Maud, 1899, B. Ph., Columbus, 558 Rich St.
- Redick, Mary Glisson, 1898, B. Ph., Findlay.
- Redrow, Walter L., 1900, B. Sc., Columbus.
- Reed, Robert Browning, 1896, M. E. in EE., Zanesville, electrical contractor.
- Reed, William Allen, 1897, E. M., Querida, Colorado, assayer and surveyor, Bassick G. M. Co.
- Reese, William Daniel, 1891, B. A.
- Reese, William Henry, 1896, G. Ph., Glen Roy, Pharmacist.
- Reeves, Archibald C., 1887, C. E., 153 Superior avenue, Dayton, civil engineer.
- Resler, Edwin D. (B. A., Otterbein), 1897, M. A. Westerville.
- Rice, Herbert A., 1897, C. E., Jackson, teacher.
- Rice, Mabel Elise, 1898, B. A., Columbus, student, Hubbard avenue.
- Rice, Mary Washington, 1900, B. A., Columbus, Fellow in Economics, Ohio State University.
- Rice, Susan Esther, 1899, B. A., Columbus, 111 West Fifth avenue.
- Richardson, Hamilton Hutchinson, 1892, B. Agr., Brooklyn, gardner.
- Richardson, William Waddle, 1899, B. Ph., Washington, D. C.
- Rickey, Luzerne A., 1897, B. Ph., Denver, Col., attorney.
- Rickey, Alla B., 1889, B. Ph. (Mrs. Geo. H. Cless), Broad street, Columbus.
- Rickey, Tallmadge A., 1900, B. Ph., Columbus.
- Riddle, Howard Sterling, 1897, M. E. in EE., Akron, Diamond Rubber Co.
- Riddle, Lumina C., 1897, B. Sc., 1898, M. Sc., Grand Haven, Mich., teacher in Science and Mathematics in the Akeley Institute.
- Rietz, Henry Lewis, 1899, B. Ph., Gilmore.
- Riggs, Ernest Jacob, 1895, B. Sc. (Agr.), M. Sc. (H. & F.), Racoon Island, O.
- Rightmire, George Washington, 1895, B. Ph., 1898, M. A., Columbus, teacher in High School and fellow and assistant in American History, State University.
- Ritchey, Joseph C., 1890, B. Sc., Mingo Junction, with Junction Iron and Steel Co..
- Roach, Simeon Andrew, 1899, B. Ph., Cleveland, New York Life Insurance Co.
- Robbins, George A., 1899, B. Ph., Columbus, Lexington avenue.
- Roberts, Cyrus Swan, 1898, E. M., San Lui Potosi, Mexico, with the Cia Metaturica Mexicana.
- Robinson, Eckla Mazola, 1892, B. Sc. (Mrs. George Rowe).
- Robinson, Erdis Geroska, 1893, C. E., Mexico, D. F., Mexico, Engineering Department of Mexican Central Railway.
- Robinson, Zella Vina, 1898, B. Ph., 1900, M. A., Columbus, Highland street.
- Rockwell, Mary Fannie, 1899, B. Ph., Columbus.
- Roebuck, Carl Fletcher, 1900, B. Ph., Columbus, student State University Law College.
- Rogers, Andrews, 1896, B. Ph., New York City, student, College of Physicians and Surgeons.
- Rogers, Frank Persons, 1899, B. A., Columbus, 140 Warren street.
- Rogers, James Bertrand, 1896, E. M., Steubenville, National Steel Co., Mingo Junction.
- Root, Willis J., 1885, E. M., Columbus, chemist, National Steel Co.
- Rowlee, Henry A., 1897, M. E., Columbus, inspector Ordnance Department U. S. A., The Rarig Eng. Co.



- Ruhlen, Carl Marble, 1898, M. E., Honolulu, H. I., assistant inspector construction department, U. S. Army.
- Ruhlen, Frank, 1896, B. Sc. (Agr.), Columbus, assistant in Agriculture, State University.
- Rule, Ralph R., 1897, LL. B. (B. S., Tri-State College, Ind.), Greenspring.
- Ruppersburg, Emma Anna, 1891, B. Sc., 1896, M. Sc., Columbus, teacher in High School, 842 South High street
- Russell, Ralston, 1896, B. Ph., Pomeroy.

## S

- Sabine, Annie Ware, 1884, B. A., 1886, A. M., (1888, B. Sc., Mass. Institute Technology), (Mrs. W. H. Siebert), Columbus
- Sabine, Wallace Clement, 1886, B. A. (M. A., Harvard), 53 Trowbridge street, Cambridge, Mass., assistant professor in Physics, Harvard University.
- Safford, Robert Edwin, 1894, B. Sc., New York City, Mexican Metallurgico Co.
- Sandoe, Lydora Olivia, 1893, LL. B., Mrs. Bachman, 1425 Bryden Road, Columbus.
- Sater, Lowry Francis, 1895, B. Ph., 1897, LL. B., Columbus, attorney, 114 Buttes avenue.
- Sayre, Charles B., 1900, B. A., Cblumbus.
- Schaff, Mae B., 1900, B. Ph., Columbus.
- Schaub, Edward Louis Tascher, 1885, M. E., Columbus, assistant superintendent Associated Charities.
- Schaub, Charles E., 1897, E. M., Phillippi, W. Va.
- Scheibell, William O., 1888, E. M., Columbus, secretary and general manager, The American Art Tile Co.
- Schlesinger, Hugo Nathan, 1899, LL. B., Xenia.
- Schreiber, George E., 1900, M. E. in EE., Ironton.
- Schreiber, John Martin, 1899, M. E. in EE., Cleveland, Cleveland Electric Street Railway.
- Schroll, Otto, 1886, C. E., Wheeling, W. Va., civil engineer, M. of W., W. B. & T. Ry. Co.
- Schuessler, Erwin Waldemar, 1892, B. A., M. D., 1894, Columbus, physician, 439 South High street.
- Schwier, Minona, 1897, B. A., Columbus, 212 East Mound street.
- Scott, Anna Neill, 1886, B. A., 1274 Summit street, Columbus.
- Scott, Bertha, 1890, B. Ph., Indianola Place, Columbus.
- Scott, Herbert, 1893, B. Sc., Columbus, pastor North M. E. Church, 2533 East avenue.
- Scott, Charles Felton, 1885, B. A., Pittsburg, Pa., chief electrician Westinghouse E. & M. C., 6214 Sellers street.
- Scott, Daisy Medill, 1887, B. A., Columbus, teacher in High School.
- Scott, Dudley, 1900, B. Ph., Columbus.
- Scott, Emma, 1888, B. Sc., Brindiban, India Missionary.
- Scott, Ernest, 1897, B. Sc. (Agr.), Columbus, student, Ohio Medical University, 131 East Fifteenth avenue.
- Scott, Mary Odella, 1885, B. A., Columbus, teacher in High School, 87 West Fourth avenue.
- Scott, Mary Mermon, 1887, B. A., 1274 Summit street, Columbus.
- Scott, Mary Bole, 1896, B. A., Columbus, teacher, 926 Oak street.
- Sears, Walter James, 1894, B. Ph., Chillicothe, with Sears and Nichols Co.
- Sedgwick, Edward Crayton, 1895, M. E. in EE., Columbus, Case Mfg. Co.



- Selby, Augustine D., 1893, B. Sc., Wooster, botanist and chemist, Ohio Experiment Station.
- Sellenings, Albert Eugene, 1896, B. Ph., M. D., Bellevue Interne, New York.
- Seney, Allen J. (B. Ph., University of Michigan), 1899, LL. B., North Baltimore.
- Serva, Adam A., 1893, M. E. in EE., Ft. Wayne, Ind., Fort Wayne Electric Works.
- Seymour, Raymond J., 1900, B. Sc., Fellow in Natural History, Tuft's College.
- Shark, Robert J., 1897, LL. B., Hamilton.
- Sharp, Charles C., 1888, C. E., Corning, superintendent Mining Department Sunday Creek Coal Co.
- Sharp, David Barton, 1893, LL. B., Columbus, 335 West Fourth avenue.
- Shellabarger, Marley Rolin, 1897, B. Sc. (Agr.), Garland, Ohio.
- \*Shepard, Frank Reed., 1893, B. A., died August, 1893.
- Shepherd, Charles W., 1900, C. E., Huron.
- Sherman, Christopher Elias, 1894, C. E., Columbus, assistant professor in Civil Engineering, State University.
- Shield, Wallace B., 1898, B. A., Kansas City, Mo., Manual Training High School.
- Short, Sidney H., 1880, B. Sc., London, England.
- Shuck, Carey Lucas, 1898, B. Ph., Columbus, "Columbus Evening Dispatch."
- Shurtz, Olive L., 1898, B. Ph., Columbus, 26 King avenue.
- Siebert, Wilbur H., 1888, B. A. (M. A., Harvard), Columbus, associate professor History, State University.
- Sigerfoos, Charles Peter, 1889, B. Sc., 1897, Ph. D. (Johns Hopkins University), Minneapolis, Minn., professor of Zoology, University of Minnesota.
- Sigerfoos, Edward, 1891, B. Ph., Fort Sheridan, 1st Lieut. Fifth Infantry, U. S. Army.
- Simonton, Mark, 1895, M. E. in EE., Columbus, Electric Supply and Construction Co.
- Simpson, Abigail Ellen, 1895, B. A., London, teacher in High School.
- Singleton, Charles Tod, 1900, B. Ph., student State University Law College.
- Sinks, Frederick Nicholas, Ph. L. (Yale University), 1898, LL. B., Columbus, 714 East Broad street.
- Skinner, Chas. E., 1890, M. E., box 435, Pittsburg, Pa., Westinghouse E. & M. Co.
- Slater, Burr Homer, 1895, G. Ph., Chesterville, Pharmacist.
- Slyh, Emma Almeida, 1892, B. Sc., Marble Cliff.
- Smith, Albertine, 1900, B. Ph., Columbus.
- Smith, Alice May, 1897, B. Ph.
- Smith, Burton Griffin, 1895, G. Ph., Detroit, Mich., chemist for the Ray Chemical Co.
- Smith, Carl Clyde, 1890, B. Ph., Marietta.
- Smith, Clarence Elmer, 1898, G. Ph., Columbus, student O. M. U.
- Smith, David William, 1899, C. E., Columbus, Hocking Valley Ry. Co.
- Smith, Edward E., 1897, G. Ph., Indian Territory.
- Smith, Edward Trevett, 1898, LL. B., Holden, Mo.
- Smith, Florizel, 1880, B. A., Spahr Building, Columbus, attorney-at-law, 970 Bryden Road.
- Smith, Horace Prescott, 1886, B. Sc.
- Smith, Maud Virginia, 1894, B. A. (Mrs. Thomas Chalmers), Port Huron, Mich.
- Smith, Myron Alphonso, 1892, B. Ph., Columbus, with Keyes & Thomas, real estate agents.
- Smith, Nathaniel B., 1893, D. V. M.
- Smith, Philo Christopher, 1885, B. Sc., Middlebranch, farmer.
- Smith, Virginia Roletta, 1900, B. Ph., Columbus.

- Smith, Warren Lee, 1899, LL. B., Columbus, 29 East Dodridge street.
- Snider, Charles M., 1897, B. Sc. (Ind. Arts), Columbus, 162 West Mound St.
- Snider, Jesse Worthington, 1893, LL. B., LL. M., Columbus, 340 Denmead ave.
- Snively, Harry H., 1895, B. A., Columbus, teacher in High School, 1332 Highland street.
- Snow, Walter A., 1897, B. Ph., Park Place, Minneapolis, Minn., Pastor Congregational Church.
- \*Snyder, Henry, 1879, B. Sc., 1892, M. Sc. Died September, 1898.
- Snyder, James Edward, 1892, LL. B. (B. A., Wooster University).
- Snyder, Walter S., 1897, LL. B., Columbus, Attorney, 69 North Fourth street.
- Somermeir, Edward Everett, 1898, G. Ph., Columbus, assistant in Mining and Metallurgy, State University.
- Southard, Eustace Elden, 1895, G. Ph., Columbus, pharmacist, 470 Oak street.
- Southard, Thomas Campbell, 1896, B. A., Columbus, 470 Oak street.
- Sparks, Edwin Earle, 1884, B. A., 1892, M. A., Chicago University, assistant professor, Chicago, Ill.
- Spencer, William Henry, 1891, G. Ph., Sandusky, with Strong and Spencer.
- Spencer, Ralph Oliver, 1899, B. A., Columbus.
- Sperr, Frederick W., 1883, E. M., Houghton, Mich., professor of Civil and Mining Engineering, Michigan School of Mines.
- Sprague, Charles Franklin, 1896, B. A., 1899, LL. B., Wapakoneta.
- Sprague, Clarence Milton, 1899, C. E., Columbus, Room 2, Union Station, Assistant on Engineers' Corps, P., C., C. & St. L., Indianapolis Div.
- Sprague, William Ralph, 1899, B. Ph., Columbus, 71 West Tenth avenue
- Spurrier, John Randolph, 1896, M. E. in EE., Wilksburg, Pa., Westinghouse E. & M. Co.
- Staley, Marcellus, 1899, M. E. in EE., U. S. Transport Meade, chief electrician.
- Stanberry, Charles L., 1892, G. Ph., Pharmacist, McConnellsville.
- Starbuck, Daniel Carl, 1899, M. E. in EE., Care U. S. Despatch Agent, N. Y., U. S. S. Chicago.
- Steeb, Carl Eckert, 1899, B. Ph., Columbus, accountant, O. S. U.
- Stephenson, Henry Thew, 1894, B. Sc., Bloomington, Ind., instructor in English, University of Indiana.
- Stevens, Frank M., 1897, LL. B., Elyria.
- Stevenson, Amos Claude (A. B., Oberlin College), 1900, LL. B., Fostoria.
- Steward, Charles Benjamin, 1900, B. Sc. (Agr.), Marcy.
- Stewart, Edwin Earle, 1895, LL. B. (M. A., Antioch College), attorney, Springfield.
- Stewart, Lee Raymond, 1896, C. E., Philadelphia, Pa., N. Y. Ship Building Co.
- Stewart, Harford Toland, 1896, M. E. in EE., Agent General Electric Co., Columbus.
- Stiger, Thomas A., 1899, LL. B., Bucyrus.
- Stimson, Charles Leslie, 1899, B. A., Columbus, 737 Bryden Road.
- Stimson, George, 1900, B. A., Columbus, 737 Bryden Road.
- Stinebaugh, Isaac Long, 1892, C. E., Port Clinton, deputy to county surveyor
- Stone, Carlton Elijah, 1899, C. E., Gallipolis, civil engineer.
- Storer, Norman Wilson, 1891, M. E. in EE., Pittsburg, Pa., Westinghouse E. & M. Co.
- Storer, Simon B., 1893, M. E. in EE., Syracuse, N. Y., engineering and salesman, Westinghouse E. & M. Co.
- Stouffer, Charles Irwin, 1893, LL. B., Columbus, 387 Oak street.
- Stoughton, George L., 1895, LL. B. (B. A., Otterbein University).
- Stull, Emmett Willet, 1894, M. E. in EE., Johnstown, Pa., draughtsman Motor Department The Lorain Steel Co.

- Stump, Franklin Pierce, 1892, B. Agr., Convoy, farmer.  
 Stump, John William, 1895, C. E., county engineer, Fairfield, Co., Ohio.  
 Stump, William Lisle, 1897, G. Ph., 1898, M. Ph., Columbus, Pharmacist.  
 Surface, Harvey Adam, 1891, B. Sc., 1892, M. Sc.  
 Sutherland, Margaret, 1898, B. Ph., (Mrs. Benj. Flynn), Columbus, Neil ave.  
 Sutphen, James Leonard, 1897, G. Ph., Columbus, 673 Livingston avenue.  
 \*Swartzel, Earl Glenn, 1895, B. Sc., died March, 1899.  
 Swartzel, Karl Dale, 1893, B. Sc., 1894, M. Sc., Columbus, assistant professor of Mathematics, State University.  
 Swisher, William Henry, 1896, G. Ph., M. D., Eaton, Physician.  
 Sykes, William Edgar, 1898, LL. B., Marietta.  
 Sylvester, John E., Jr., 1898, B. Ph., Wellston, editor "Wellston Telegram."

## T

- Talbot, Ellen B., 1890, B. A., Troy, N. Y.  
 Talbot, Herbert Swan, 1898, B. Ph., Columbus, clerk Columbus Board of Trade, 640 Franklin avenue.  
 Talbot, Mignon, 1892, B. A., 640 Franklin ave., Columbus, teacher in High School.  
 Travis, Fred Lant, 1900, B. A., Pana, Ill., teacher.  
 Travis, John F., 1900, B. A., Columbus, Fellow in Mathematics, Ohio State University.  
 Taylor, Arthur W., 1894, E. M., Cleveland, chemist for Otis Steel Co.; Ltd.  
 \*Taylor, Francis Asbury, 1885, B. A., died July 25, 1891.  
 Taylor, Alexander R., 1895, B. Sc.  
 Taylor, Fredric Wellington, 1900, B. Sc. (Agr.), Wooster.  
 Taylor, Ralph Buren, 1895, B. A.  
 Taylor, Joseph Russell, 1887, B. A., M. A. (Columbia University), Columbus, assistant professor English Literature, State University.  
 Taylor, Pearl V., 1897, B. A., Columbus, 46 West Noble.  
 Teter, Anstie Welsh, 1896, G. Ph., Bainbridge, Pharmacist.  
 Thomas, James O., 1897, C. E., Columbus, 404 West Goodale.  
 Thomas, Lawrence David, 1900, B. Ph., Lancaster.  
 Thompson, Carmi A., B. Ph., 1895, LL. B., Ironton, city solicitor.  
 Thompson, Howard N., 1888, B. Ph., Washington, D. C., correspondent Associated Press.  
 Tomlinson, James Rowe, 1892, C. E., Cleveland, Forest City Iron Works.  
 Towne, Robert S., 1879, B. Sc., E. M., New York, N. Y., president Mexican Northern Railway.  
 Townshend, Alice Margaret, 1880, B. A. (Mrs. Charles Wing), Columbus.  
 Townshend, Arthur Bailey, 1878, B. Sc., M. D., 22 West 32d street, New York, New York, N. Y., physician.  
 Tufts, Charles Hill, 1899, E. M., Cleveland, assistant chemist Otis Steel Co., Ltd.  
 Tupper, Eugene L., 1893, G. Ph., Ottawa, physician.  
 Turner, Arthur M., 1893, M. E. in EE., 281 Oak street, Chicago, Ill.  
 Turner, Frederick Lewis, 1897, B. A., 1898, M. A., Oak Park Hills, teacher in High School.  
 Twiss, George R., 1885, B. Sc., Cleveland, teacher of Physics in High School.  
 Twiss, Edith Minot, 1895, B. A., Mt. Vernon, teacher in High School.  
 Twiss, Marion Evans, 1897, B. A., Columbus, State Library.  
 Tyler, Frederic Jared, 1900, B. Sc. (H. & F.), Perry.



## U

- Uncles, Margaret Anna, 1897, B. A., Columbus, Gill street.  
 Underwood, Ella, 1898, B. A., Mrs. O. A. Davis, Alliance.  
 Urban, Harry Marshall, 1898, C. E., Pittsburg, Pa., "Pan Handle" R. R.,  
 assistant engineer corps.

## V

- Vance, Mary Grace, 1898, B. A., Danville, Ky., Caldwell College.  
 Vandervoort, William P., 1886, E. M., Morrow, superintendent of schools.  
 Van Harlingen, Edward M., B. Sc., 1883, M. Sc., 1897, Columbus.  
 Viets, Willis B., 1886, E. M., Parryville, Pa., chemist, Carbon Coal and Iron Co.  
 Voke, Lewis F., 1893, G. Ph., Columbus, M. D., Starling Medical College,  
 physician, France Medical Institute.  
 Voorhees, Burt Fisk, 1894, LL. B., Coshocton.  
 \*Voorhees, Charles W., 1892, LL. M. (B. Sc., Scio College), died 1898.  
 Voorhees, Isaac M., 1894, B. Ph., Cadiz, journalist, editor of "Harrison News."  
 Vornholt, Julius Franklin, 1898, B. A., New Bremen.  
 Vosskuehler, Joseph H., 1900, M. E., Dayton.

## W

- Wadsworth, F. L. Olcutt, 1888, B. Sc., E. M., M. E., Director of Allegheny  
 Observatory, Allegheny, Pa.  
 Wagstaff, Edward A., 1893, G. Ph., Niles, pharmacist, Jones and Wagstaff.  
 Waid, Clarence William, 1898, B. Sc. (H. & F.), Durham, N. H., Assistant in  
 Horticulture.  
 Walker, Frederick William, 1896, B. A., Columbus, 46 North Lazelle St.  
 Walker, James Madison, 1896, C. E., Chicago Junction, Assistant Res. Eng.  
 B. & O. R. R. Co.  
 Walsh, Annetta Curtis, 1897, B. A., Columbus, 148 Buttles avenue.  
 Walsh, Mary Helen, 1896, B. Ph., Columbus, 148 Buttles avenue.  
 Ward, J. C., 1880, B. A., Painesville, engineer and surveyor.  
 Ward, Philip Emerson, 1899, B. Ph., Willoughby.  
 Warden, Leonard C., 1899, B. Sc. (H. & F.), 42 Jackson Boulevard, Atlantic  
 Building, Chicago, Ill.  
 Warner, Cora, 1882, B. Ph., corner Hubbard and Dennison aves., Columbus.  
 Warren, Arthur Robert, 1893, LL. B., Columbus.  
 Warren, Grant Alexander, 1894, LL. B.  
 Watson, Bensen Gruber, 1896, B. Ph., Columbus, attorney, The Garland.  
 Watson, Edward T., 1897, B. Sc., Chillicothe, teacher in High School.  
 Watt, Sern P., 1886, M. E., Chicago, Ill., Vice President and Mechanical  
 Expert, Hine-Watt Mfg. Co.  
 Weaver, Mary Lurette, 1891, B. Ph., 231 Church street, Urbana.  
 Weaver, Harry Bright, 1894, LL. B. (B. A., Ohio Wesleyan University), Circle-  
 ville, attorney.  
 Webb, Scott Anderson, 1888, B. Ph., Columbus, attorney-at-law, 222 King  
 avenue.  
 Webber, Karl T., 1897, LL. B., Columbus, attorney, 2585 West Broad.  
 Weick, Charles William, 1898, B. Sc. (Ind. Arts), New York, Professor Manual  
 Training, Columbia University.  
 Weidner, George F., 1887, G. Ph., Columbus, Kauffman-Latimer Co.  
 Weinland, Edgar Lynn, 1893, LL. B. (B. Ph., Otterbein University), Columbus,  
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 Weisman, Laura A., B. Sc. (Dom. Sci.), Columbus.



- Welch, Clark J., 1888, C. E., Pittsburg, Pa., assistant engineer, Keystone Bridge Works.
- Welch, Oliver Bartlet, 1895, M. E. in EE., Dennison, electrician, United Electric Co.
- Weld, Harry P., 1900, B. Ph., Marysville.
- Wendt, William Carl, 1889, G. Ph., 901 South High street, Columbus, Heer's Pharmacy.
- Wertz, Edwin Slusser, 1899, B. Ph., 1900, LL. B., Dalton.
- West, Earle Downs, 1900, B. A., Columbus.
- Whitacre, Horace J., 1891, B. Sc., 1895, M. D., Columbia University, Cincinnati (Mt. Auburn), physician.
- Whitacre, Marion, 1894, B. Sc., 1899, M. D., Columbia University, Cincinnati, physician.
- White, David S., 1890, D. V. M., Columbus, professor in Veterinary Medicine, State University.
- Wiggins, Sherman Tecumseh, 1894, LL. M. (LL. B., University of Michigan), 1897, B. Ph., Coffeyville, Kan.
- Wikoff, John Burkett, 1884, B. Ph., Cambridge, assistant to general manager Cleveland & Marietta Railway Co.
- Wilcox, Alvah Newton, 1895, M. E., Dayton.
- Wilcox, Edwin Mead, 1896, B. Sc., Harvard University.
- Wilcox, McAllister, 1898, LL. B., Sunbury.
- Wildermuth, Andrew Lee Roy, 1899, LL. B., Columbus.
- Wilgus, Horace Lafayette, 1882, B. Sc., 1884, M. Sc., Ann Arbor, Mich., professor of Law, University of Michigan.
- Wilgus, James A., 1888, B. Ph., M. A., Plattville, Wis., professor of History and Economics in the State Normal School.
- Williams, Anna Ernestine, 1899, B. Ph., Jackson, teacher in High School.
- Williams, Clara M., 1900, B. Ph., Columbus.
- Williams, Herbert Oswald, 1894, B. A., 1900, M. A., Columbus, teacher in High School, 190 East Long street.
- Williams, Guy Rulon, 1895, LL. B., Columbus, attorney-at-law.
- Williams, Lloyd Thomas, 1896, B. Ph., 1900, LL. B., Toledo, attorney.
- Williamson, Edward Bruce, 1898, B. Sc., Bluffton, Ind.
- Wilson, Harry Rush, 1895, LL. B. (B. A., Mt. Union College), 1896, LL. M., Columbus, attorney, 1459 Bryden Road.
- Wilson, Frank (B. S., Scio College), 1900, LL. B., Jolly.
- Winter, Nevin Otto, 1897, LL. B. (A. B., Ohio Wesleyan University), Spitzer Bldg., Toledo.
- Wirth, Ida M., 1895, B. Ph., Columbus, South High street.
- Wirthwein, Louis Philip, 1899, C. E., Columbus, 677 South High street.
- Wise, Albert Joseph, 1898, C. E., Anderson, Ind., assistant engineer, Big Four, Cleveland and Indianapolis Div.
- Wolcott, Roy C., 1895, B. Ph., 1896, M. D., Columbus, physician.
- Wolf, Herman Howard, 1895, C. E., Lieut. U. S. Revenue Cutter Service.
- Wood, Francis Carter, 1891, B. Sc., 8 East 49th street, New York City, Pathologist to St. Luke Hospital.
- Wood, Kenneth Dodge, 1881, B. A., Columbus, secretary of the Central Ohio Paper Company.
- Wood, Willard B., 1893, B. Sc., Columbus, in Columbus Postoffice.
- Woods, Charles H., 1900, LL. B., Chillicothe.
- Woodworth, Henry Julian, 1887, B. Sc., Logan.
- Worcester, Wood Frank, 1899, B. Ph., Columbus, O. S. U. Dormitory.
- Workman, Charles, 1896, B. A., Columbus, 135 East Eighth avenue.

- Wright, Burr Roscoe, 1897, B. Ph., Columbus, 765 North Park street.  
Wright, Carrie, 1892, B. Ph., Chicago, Ill., teacher in the Armour Institute.  
Wright, William Van Horn, 1893, LL. B., 1896, LL. M., Columbus Postoffice.

**Y**

- Yockey, Paul B., 1897, B. A., 1900, LL. B., Columbus, 404 West Seventh ave.  
Yohe, Cyrus Elmer, 1893, LL. B., Nevada.  
Young, Harry Nelson, 1895, G. Ph., Flint, Michigan, Pharmacist.  
Young, John Wesley, 1899, B. Ph., Ithaca, N. Y., Fellow in Mathematics, Cornell University.  
Young, Mary Grace, 1900, B. Ph., Mt. Vernon.

**Z**

- Zaumseil, Oscar C., 1887, Webb City, Mo.  
Zurfluh, William Nicholas, 1894, M. E. in EE., Springfield, The Robbins and Myers Company.



THIRTY-FIRST ANNUAL REPORT

OF THE

BOARD OF TRUSTEES

OF THE

OHIO STATE UNIVERSITY

TO THE

GOVERNOR OF OHIO

FOR THE

YEAR ENDING JUNE 30, 1901.





# BOARD OF TRUSTEES

1900-1901

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LUCIUS B. WING .....	Newark.....	May 13, 1902
THOMAS J. GODFREY.. .....	Celina.....	" 1903
J. McLAIN SMITH .....	Dayton.....	" 1904
PAUL JONES.. .....	Columbus.....	" 1905
OSCAR T. CORSON .....	Columbus.....	" 1906
DAVID M. MASSIE. ....	Chillicothe.....	" 1907
JOHN T. MACK .....	Sandusky.....	" 1908

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## OFFICERS OF THE BOARD.

J. McLAIN SMITH .....	President.
OSCAR T. CORSON .....	Vice-President.
ALEXIS COPE .....	Secretary.
L. F. KIESEWETTER.....	Treasurer.

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## COMMITTEES OF THE BOARD.

EXECUTIVE	FARM	FINANCE
L. B. WING	J. McLAIN SMITH	D. M. MASSIE,
T. J. GODFREY	L. B. WING	J. McLAIN SMITH
PAUL JONES	JOHN T. MACK	PAUL JONES

## FACULTY AND COURSES OF STUDY

THOMAS J. GODFREY	JOHN T. MACK	OSCAR T. CORSON
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# MEMBERS OF THE FACULTY AND OTHER INSTRUCTORS

1900-1901

WILLIAM OXLEY THOMPSON,  
President — University Grounds.

WILLIAM HENRY SCOTT,  
Professor of Philosophy — 131 Fifteenth avenue

SIDNEY AUGUSTUS NORTON,  
Emeritus Professor and Lecturer in General Chemistry — 363 East Town street.

STILLMAN W. ROBINSON,  
Emeritus Professor of Mechanical Engineering — 1353 Highland street.

NATHANIEL WRIGHT LORD,  
Professor of Mineralogy and Metallurgy, Director of the School Mines, and Dean of the  
College of Engineering — 338 West Eighth avenue.

SAMUEL CARROLL DERBY,  
Professor of Latin — 93 Fifteenth avenue.

WILLIAM RANE LAZENBY,  
Professor of Horticulture and Forestry — 348 West Eighth avenue.

JOSIAH RENICK SMITH,  
Professor of the Greek Language and Literature — 950 Madison avenue.

HENRY ADAM WEBER,  
Professor of Agricultural Chemistry — 1342 Forsythe avenue.

BENJAMIN FRANKLIN THOMAS,  
Professor of Physics and State Sealer of Weights and Measures — University Grounds.

GEORGE WELLS KNIGHT,  
Professor of American History and Political Science, and of Constitutional Law —  
University Grounds.

ROSSER DANIEL BOHANNAN,  
Professor of Mathematics — Sixteenth and Indianola avenues.

C. NEWTON BROWN,  
Professor of Civil Engineering — 1343 Forsythe avenue.

ERNST AUGUST EGGERS,  
Professor of Germanic Languages and Literatures — University Grounds.

ALBERT MARTIN BLEILE,  
Professor of Anatomy and Physiology — 218 King avenue.

WILLIAM ASHBROOK KELLERMAN,  
Professor of Botany — 175 Eleventh avenue.

THOMAS FORSYTHE HUNT,  
Professor of Agriculture, and Dean of the College of Agriculture and Domestic Science —  
188 West Tenth avenue.

GEORGE BEECHER KAUFFMAN,  
Professor of Pharmacy, and Dean of the College of Pharmacy — University Grounds.

BENJAMIN LESTER BOWEN,  
Professor of Romance Languages and Literatures — 46 Jefferson avenue.

JOSEPH VILLIERS DENNEY,  
Professor of Rhetoric and the English Language, and Secretary of the University Faculty —  
230 West Tenth avenue.

ALLEN CAMPBELL BARROWS,  
Professor of English Literature and Dean of the College of Arts, Philosophy and Science —  
85 West Tenth avenue.



EDWARD ORTON, JR.,

Professor and Director of the Department of Clay Working and Ceramics — The Normandie.

WILLIAM FOREST HUNTER,

Dean of the College of Law and Professor of Law — 1302 Bryden Road; 18 Board of Trade.

(1) DAVID FRANKLIN PUGH,

Professor of Law — 1320 Highland street.

JAMES HENRY COLLINS,

Professor of Law — 57 Lexington avenue; Ruggery Building.

EMILIUS OVIATT RANDALL,

Professor of Law — 1025 Oak street; Supreme Court Room.

WILLIAM THOMAS MAGRUDER,

Professor of Mechanical Engineering — 191 King avenue.

J. P. GORDY,

Professor of Pedagogy — 350 West Seventh avenue.

EDGAR BENTON KINKEAD,

Professor of Law — Wyandotte avenue; Board of Trade.

WILLIAM HERBERT PAGE,

Professor of Law — 527 East Broad street; 27 Board of Trade.

WM. McPHERSON, JR.

Professor of Chemistry — 97 Hamilton avenue.

JOSEPH NELSON BRADFORD,

Professor of Drawing — 54 West Tenth avenue.

DAVID STUART WHITE,

Professor of Veterinary Medicine, and Dean of the College of Veterinary Medicine — West Fifth avenue.

HERBERT OSBORN,

Professor of Zoology and Entomology — 485 King avenue.

CLARENCE P. LINHART,

Professor of Physical Education, and Director of the Gymnasium — The Vendome.

OLIVE BRANCHE JONES,

Librarian — 53 Eleventh avenue.

HENRY CURWIN LORD,

Professor of Astronomy and Director of the Emerson McMillin Observatory and Observatory Park.

FRANK EDWIN SANBORN,

Professor and Director of the Department of Industrial Arts — 303 West Eighth avenue.

FRANK ARNOLD RAY,

Professor of Mine Engineering — 137 King avenue.

FREDERICK CONVERSE CLARK,

Professor of Economics and Sociology — 1634 Neil avenue.

WILLIAM DAVID GIBBS,

Professor of Agronomy — 234 West Tenth avenue.

JOHN A. SHAUCK,

Professor of Law — 95 Winner avenue.

J. H. R. PAUL FISCHER,

Professor of Pathological Anatomy — Franklin avenue.

EMBURY ASBURY HITCHCOCK,

Associate Professor of Experimental Engineering — 380 West Eighth avenue.

FRANCIS CARY CALDWELL,

Associate Professor of Electrical Engineering — 401 Sixth avenue.

PERLA G. BOWMAN,

Associate Professor of Domestic Science — The Saint Anna.

WILBUR HENRY SIEBERT,  
Associate Professor of History — 1332 Highland street.

GEORGE WASHINGTON McCOARD,  
Associate Professor of Mathematics — 325 West Sixth avenue.

CHARLES WALTER MESLOH,  
Associate Professor of German — University Grounds.

ARTHUR WINFRED HODGMAN,  
Associate Professor of Classic Languages — 164 West Ninth avenue.

CHARLES SMITH PROSSER,  
Associate Professor of Historical Geology — 1362 Highland street.

JOHN ADAMS BOWNOCKER,  
Associate Professor of Inorganic Geology — 1594 Neil avenue.

JOHN WRIGHT DECKER,  
Associate Professor of Dairying — 329 West Eighth avenue.

CORNELIA PORTER SOUTHER,  
Associate Professor of Domestic Art — 1356 Neil avenue.

CLARA MAUD BERRYMAN,  
Associate Professor of Physical Education — 175 Eleventh avenue.

J. WARREN SMITH,  
Lecturer on Meteorology — 55 Cleveland avenue.

JAMES ELLSWORTH BOYD,  
Assistant Professor of Physics — 25 Maynard avenue.

JOSEPH RUSSELL TAYLOR,  
Assistant Professor of Rhetoric — corner King and Worthington.

CHRISTOPHER ELIAS SHERMAN,  
Assistant Professor of Civil Engineering — 772 Oak street.

WILLIAM LUCIUS GRAVES,  
Assistant Professor of Rhetoric — 1313 Forsythe avenue.

CLAIR ALBERT DYE,\*  
Assistant Professor of Pharmacy — 169 King avenue.

THOMAS EWING FRENCH,  
Assistant Professor of Drawing — 1458 Worthington.

CHARLES WILLIAM FOULK,\*  
Assistant Professor of General Chemistry — 41 Eleventh avenue.

CHARLES LINCOLN ARNOLD,  
Assistant Professor of Mathematics — 323 West Eighth avenue.

CHARLES A. BRUCE,  
Assistant Professor of French — 234 West Tenth avenue.

JOHN H. SCHAFFNER,  
Assistant Professor in Botany — 40 West Tenth avenue.

CHARLES BYRON FREDERICK,  
Assistant Professor of Veterinary Medicine — Veterinary Hospital.

CHARLES BRADFIELD MORREY,  
Assistant Professor of Anatomy and Physiology — 86 King avenue.

WILLIAM EDWARDS HENDERSON,  
Assistant Professor of Analytical Chemistry — 41 West Eleventh avenue.

JAMES STEWART HINE,  
Assistant Professor of Entomology — 26 West Fourth avenue.

KARL DALE SWARTZEL,  
Assistant Professor of Mathematics — 57 West Eighth avenue.

WALTER ALEXANDER LANDACRE,  
Assistant Professor of Pharmacy — 1574 Summit street.

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\* Absent on leave.

## ANNUAL REPORT

GEORGE H. McKNIGHT,  
Assistant Professor of Rhetoric and English Language — 312 West Seventh avenue.

HERRICK CLEVELAND ALLEN,  
Assistant Professor of Public Speaking — 275 East Gay street.

FRANCIS LEROY LANDACRE,  
Assistant Professor of Zoology and Entomology — 1332 Highland street.

BURT BIDWELL HERRICK,  
Instructor in Cheese-making — 167 Tenth avenue.

FREDERICK EDWARD KESTER,  
Instructor in Physics — 1473 Neil avenue.

WILLIAM ABNER KNIGHT,  
Instructor in Machine Work — 206 West Lane avenue.

WILLIAM HENRY RENCK,  
Instructor in Pattern Making and Founding — 910 West Rich street.

CHARLES PHILIP CROWE,  
Instructor in Forging — 971 Highland street.

ALONZO HUBERT TUTTLE,  
Instructor in American History — 215 West Tenth avenue.

ARTHUR ERNEST DAVIES,  
Instructor in Philosophy — Seventeenth avenue.

ALBERT F. HALL,  
Machinist in Mechanical Engineering — 1051 Highland street.

THOMAS KENYON LEWIS,  
Assistant in Drawing — 1293 Dennison avenue.

HARRIET TOWNSHEND,  
Assistant Librarian — 53 West Eleventh avenue.

MAUDE DOROTHY JEFFREY,  
Assistant in Library — 65 West Eleventh ave.

ALBERT EARL VINSON,  
Assistant in Agricultural Chemistry — 134 West Ninth.

GERTRUDE STOWELL KELLCOTT,  
Assistant in Library — 1332 Highland street.

EDWARD EVERETT SOMERMEIER,  
Assistant in Metallurgy and Meteorology — 1590 Neil avenue.

FRANK RUHLEN,  
Assistant in Agriculture — North Dormitory.

LUCY ALLEN,  
Assistant in Library — 1490 Neil avenue.

DON CARLOS HUDDLESON,  
Assistant in Gymnasium — 249 West Lane avenue.

CLAUDE B. GUITTARD,  
Assistant in Library — 80 McMillen avenue.

S. V. PEPPEL,  
Assistant in Ceramics — North Dormitory.

OLIVER V. BRUMLEY,  
Assistant in Veterinary Medicine — University Grounds.

SILAS MARTIN,  
Assistant in Drawing — 1269 Dennison avenue.

\* HOMER CHARLES PRICE,  
Assistant in Horticulture and Forestry — 1594 Neil avenue.

FRANCIS MARION HAMILTON,  
Assistant in Philosophy and Education — 1355 North High street.

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\* Resigned April, 1901.

DELBERT ALONZO CROWNER,

Assistant in Butter Making — North Dormitory.

MELVIN DRESBACH,

Assistant in Anatomy and Physiology — 236 West Eighth avenue.

S. E. RASOR,

Assistant in Mathematics — 1594 Neil avenue.

FRED J. TYLER,

Assistant in Botany — 43 East Ninth avenue.

HERBERT CHARLES GORE,

Assistant in Chemistry — 185 West Ninth avenue.

S. S. EDMANDS,

Assistant in Electrical Engineering — 237 West Eleventh avenue.

\* EDWIN E. NOBLES,

Assistant in Drawing — Beta Theta Pi House.

WILLIAM DAVIS,

Assistant in Civil Engineering — 47 West Eighth avenue.

VERNON H. DAVIS,

Assistant in Horticulture and Forestry — O. S. U. Campus.

WILLIAM C. MILLS,

Curator of Archaeology — 19 West Tenth avenue.

HARRIET BURR,

Fellow in Botany — Worthington.

C. P. LINVILLE,

Fellow in Chemistry — 61 West Eighth avenue.

W. L. DUBOIS,

Fellow in Chemistry — 61 West Eighth avenue.

CHARLES F. KIMBERLEY,

Fellow in Chemistry — 1300 Neil avenue.

MARY W. RICE,

Emerson McMillin Fellow in Economics — 844 Summit street.

J. F. TRAVIS,

Fellow in Mathematics — 1018 Neil avenue.

WILLIAM E. BOHN,

Fellow in Rhetoric and English Language — North Dormitory.

SELDEN F. SMYER,

Fellow in Economics — 1451 Worthington street.

GEORGE W. FROST,

Fellow in Mechanical Drawing — 1018 Neil avenue.

N. O. FORD,

Fellow in Metallurgy, Mineralogy and Mine Engineering — 61 West Eleventh avenue.

ELMER DARWIN BALL,

Fellow in Zoology and Entomology — 1340 Hunter street.

CHARLES BOYD SAYRE,

Fellow in American History — 716 Neil avenue.

WALTER FISCHER,

Fellow in Botany — 810 Franklin avenue.

DANFORTH E. BALL,

Emerson McMillin Fellow in Astronomy — 565 East Broad street.

ROYAL ALBERT ABBOTT,

Fellow in Rhetoric and English Language — 1364 Forsythe avenue.

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\* Until February 11, 1901.



## EXECUTIVE DEPARTMENT

1900-1901

WILLIAM O. THOMPSON .....	President
ALEXIS COPE.....	Secretary Board of Trustees and Bursar
KATHERINE H. DUNCAN .....	Executive Clerk
EDITH D. COCKINS .....	Registrar
CARL E. STEEB .....	Accountant
EDITH R. HUBLER.....	Stenographer

### CHIEF ENGINEER

WILLIAM C. MCCracken.

### STATE GEOLOGIST

PROFESSOR EDWARD ORTON, JR.

### STATE SEALER OF WEIGHTS AND MEASURES

THE PROFESSOR OF PHYSICS, *Ex-Officio*.

COLUMBUS, O., September 26, 1901.

*His Excellency, HON. GEO. K. NASH, Governor of Ohio:*

DEAR SIR: I have the honor to transmit herewith the thirty-first annual report of the Board of Trustees, Ohio State University.

Very respectfully,

Your obedient servant,

ALEXIS COPE, *Secretary.*



# REPORT OF THE BOARD OF TRUSTEES.

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OFFICE OF THE BOARD OF TRUSTEES,

OHIO STATE UNIVERSITY,

COLUMBUS, O., *June 30, 1901.*

HON. GEORGE K. NASH, *Governor of Ohio:*

SIR:—In compliance with law the board of trustees respectfully submits the thirty-first annual report of the Ohio State University, it being for the year ending June 30, 1900.

## ENDOWMENT.

The part of the irreducible debt of the state which forms the endowment of the university, at the date of the last annual report, June 30, 1900, was \$533,893.62, on which the annual interest was \$33,233.61.

Under the operations of the act of the general assembly of March 14, 1889, entitled "A act to quiet title to unpatented lands in the Virginia military district of Ohio," the following sums were added thereto: July 5th, 1900, \$108.75; September 4th, 1900, \$64.50; March 4th, 1901, \$339; March 25th, 1901, \$227.04; April 2nd, 1901, \$429.60; April 3rd, 1901, \$71; April 11th, 1901, \$151.75; April 13th, 1901, \$174.33; April 16th, 1901, \$445; April 25th, 1901, \$169.17; May 10th, 1901, \$183; May 14th, 1901, \$124.50; May 16th, 1901, \$249.50; June 3rd, 1901, \$135.75; June 8th, 1901, \$78; June 17th, 1901, \$24.78, and under the operations of the act of the general assembly of April 21, 1893, entitled "An act for the relief of certain persons who formerly held lands in the Virginia military district of Ohio," as amended May 21, 1894, and the act of the general assembly of April 10, 1900, entitled "An act making appropriation for the relief of certain persons who formerly held lands in the Virginia military district of Ohio," there was added thereto the sum of \$1,162.50,—total additions during the year \$4,138.17,—making the endowment fund June 30, 1901, \$558,031.79, on which the annual interest is \$33,481.00.

## THE WILLIAM JENNINGS BRYAN PRIZE.

The principal of the sum of \$250, which was donated to the university by the Hon. William Jennings Bryan in 1898, on condition that the annual interest thereon was to be awarded as a prize for "the best essay discussing the principles which underlie our form of government,



and which was added to the irreducible debt of the state under the provisions of Section 4105-15, Revised Statutes of Ohio, on June 30, 1900, was \$282.50. The interest thereon to December 31, 1901, viz:—the sum of \$8.47, was not drawn, but under the provisions of the law above mentioned was added to the principall, making the sum June 30, 1901, 290.97, on which the annual interest is \$17.46.

The prize was awarded June 19th, 1901, to Mr. George H. Porter, one of the graduates of the class of that year, and the accumulated interest was appropriated for the payment thereof.

#### RECEIPTS AND DISBURSEMENTS.

##### RECEIPTS.

Balance in treasury June 30, 1901.....	\$7,126 46
Interest on endowment.....	33,310 08
State levy .....	182,704 23
State building levy.....	2,042 50
Sale of refunding bonds.....	43,516 50
Appropriation act of congress 1890.....	25,000 00
Rents .....	1,619 50
Virginia military lands.....	100 00
Students' fees .....	34,964 00
Sale store room cards.....	3,167 36
Sale store room supplies.....	1,032 64
Emerson McMillin fellowships.....	425 00
N. B. M. A. scholarship.....	250 00
Diploma fees .....	710 00
Interest on W. J. Bryan prize.....	8 44
Veterinary clinic .....	858 85
Commencement luncheon .....	87 00
Fees lake laboratory.....	135 00
From S. W. Robinson, testing boiler.....	156 00
Miscellaneous receipts .....	187 89
	<hr/>
	\$337,401 45

##### DISBURSEMENTS.

Bonds and interest.....	\$80,037 50
Salaries .....	164,938 03
Expenses of trustees.....	527 87
Repairs .....	6,347 53
Maintenance and repairs power plant.....	4,349 79
Fuel .....	9,076 18
Gas .....	1,739 25
Water .....	1,316 39
Care of roads and grounds.....	1,075 06
Attorneys' fees land cases.....	3,771 70
Advertising .....	2,189 14
Printing proceedings of the board.....	515 61
Special bulletins .....	1,020 30
Blank books and forms and stationery.....	1,401 55
Postage .....	358 28
Furniture and cases and shelving.....	1,082 39
Rent fire alarm and signal boxes.....	146 00

Telephone service .....	356 05	
Telegrams .....	28 47	
Messenger and guide service.....	383 43	
Oils .....	244 74	
General supplies, cleaning materials.....	478 99	
Freight and cartage.....	616 73	
Balance, heating Townshend Hall.....	455 03	
Extra quality paper for catalogues.....	144 00	
Commencement expenses .....	694 74	
Expenses committee visiting other institutions.....	214 98	
Traveling expenses of president.....	125 31	
Installing experimental boiler.....	288 89	
Agricultural students' union.....	172 51	
Expense delegates land grant college association.....	122 25	
Examination paper .....	113 20	
Apparatus .....	8,903 55	
Laboratory supplies .....	19,032 18	
Machinery and tools.....	1,624 55	
Astronomer's residence .....	2,225 39	
Expense visiting high schools.....	49 85	
Feed .....	120 60	
Seeds and plants.....	98 36	
Law building .....	2,107 50	
Additions to power plant.....	93 00	
Library .....	5,595 67	
N. B. M. A. scholarship.....	412 62	
Emerson McMillin fellowships.....	495 00	
Draping Orton Hall.....	150 00	
Miscellaneous .....	854 30	
		<u>\$326,094 46</u>
Balance due June 30 1901.....		<u>\$11,306 99</u>

The treasurer's report filed herewith contains a fuller statement of said receipts and disbursements, showing each item in detail.

#### VIRGINIA MILITARY LANDS.

On June 30, 1900, the total receipts from sales of the Virginia military lands granted to the university by act of the general assembly of March 26, 1782, were.....	\$65,425 28	
The expenses incident to the survey and disposition of said lands to June 30, 1900, were.....	29,058 55	
		<u>\$36,366 73</u>
Leaving the net cash receipts from this source.....		
Of this sum there had been paid into the state treasury to the credit of the endowment fund the sum of.....	\$13,665 14	
And expended for building and maintaining residences for the professors under act of April 17, 1882.....	\$22,637 57	
		<u>\$36,302 71</u>
Leaving balance June 30, 1900.....	\$64 02	
The cash receipts from this source during the year ending June 30, 1901, were .....	100 00	
		<u>\$164 02</u>
Balance June 30, 1901.....		

The balance was applied to the partial payment of attorney's fees in the cases whose settlement was reported in the last annual report.

The receipts from this source and the disbursements are included in the preceding general statement of the aggregate receipts and disbursements.

#### ADDITIONS TO ENDOWMENT.

For the period ending June 30, 1900, the additions to the endowment under the operations of an act of the general assembly of March 14, 1889, entitled "An act to quiet title to unpatented lands in the Virginia military district of Ohio," an act of April 21, 1893, entitled "An act for the relief of certain persons who formerly held lands in the Virginia military district of Ohio," an act amendatory of said last mentioned act, passed April 21, 1894, and an act passed April 28, 1898, entitled "An act making appropriation for the relief of certain persons who formerly held lands in the Virginia military district of Ohio," were \$16,052.18.

During the year ending June 30, 1901, under the operation of said three last-mentioned acts and an act passed April 10, 1900, entitled "An act making appropriation for the relief of certain persons who formerly held lands in the Virginia military district of Ohio," there was added to the endowment fund the sum of \$4,138.17, making the total additions to the endowment under these acts \$20,190.35.

#### NEW MORRILL FUND.

The following are the receipts and disbursements for the year ending June 30, 1901, of the appropriations made by the act of congress approved August 30, 1890, and known as the "New Morrill Fund" and which are included in the preceding statement of the aggregate receipts and disbursements for that period.

#### RECEIPTS.

Balance in treasury June 30, 1900.....	\$ 197 31	
Appropriations for year ending June 30, 1899.....	25,000 00	
		<u>\$ 25,197 31</u>

#### DISBURSEMENTS.

For instruction and facilities in agriculture.....	\$4,184 07	
For instruction and facilities in mechanical arts.....	8,341 69	
For instruction and facilities in English language.....	1,011 59	
For instruction and facilities in mathematical science.....	1,185 96	
For instruction and facilities in natural and physical science	9,515 35	
For instruction and facilities in economic science.....	597 53	
		<u>24,836 19</u>
Balance in treasury June 30, 1900.....		\$ 362 12

The act of congress making the appropriation requires a detailed annual statement of the receipts and disbursements of this fund, show-



ing specifically the purposes to which it has been applied, which report for the year ending June 30, 1901, is appended to the treasurer's report filed herewith.

#### BONDED INDEBTEDNESS.

The bonded indebtedness of the university June 30, 1900, was \$330,000, due and payable as follows: \$55,000 December 1, 1900; \$10,000 June 1, 1901; \$55,000 December 1, 1901; \$10,000 June 1, 1902; \$55,000 December 1, 1902; \$10,000 June 1, 1903; \$55,000 December 1, 1903; \$10,000 June 1, 1904; \$15,000 December 1, 1904; \$10,000 June 1, 1905; \$15,000 December 1, 1905; \$25,000 December 1, 1906; \$5,000 December 1, 1907.

Of this indebtedness \$50,000 bore interest at 6% and \$280,000 at 4½% per annum, payable semi-annually.

The sum of \$25,000 of said indebtedness falling due December 1, 1900, was paid when due, and the bonds were taken up and cancelled.

Under and pursuant to the provisions of an act of the general assembly entitled "An act to authorize the board of trustees of the Ohio state university to refund and extend the time of payment of portions of the bonded indebtedness of said institution as the same becomes due," passed April 23, 1898, \$30,000 of the 4½% certificates of indebtedness falling due December 1, 1900, were taken up by an issue of the same amount of 4½% refunding bonds falling due, \$20,000 December 1, 1907, and \$10,000 December 1, 1908. Said bonds brought a premium of \$2,426.75.

Under the provisions of the same act the \$10,000 of 6% certificates of indebtedness falling due June 1, 1901, were also taken up by a further issue of 4½% refunding bonds falling due December 1, 1908. Said issue of refunding bonds brought a premium of \$966.50.

The premiums received in these transactions reduce the interest on the bonds so refunded to about 3%.

Said reductions of principal and interest left the bonded indebtedness June 30, 1901, \$305,000, of which \$40,000 bears interest at 6% and \$265,000 at 4½% per annum, payable semi-annually. Said remaining indebtedness falls due as follows: \$55,000 December 1, 1901; \$10,000 June 1, 1902; \$55,000 December 1, 1902; \$10,000 June 1, 1903; \$55,000 December 1, 1903; \$10,000 June 1, 1904; \$15,000 December 1, 1904; \$10,000 June 1, 1905; \$15,000 December 1, 1905; \$25,000 December 1, 1906; \$25,000 December 1, 1907; \$20,000 December 1, 1908.

#### ASTRONOMER'S RESIDENCE.

The residence of the astronomer and director of the Emerson McMillin Observatory, mentioned in the last annual report, was completed at a total cost of \$4,557.95, and was ready for occupancy by the 1st of September, 1900. It is now occupied by that officer who pays a rental



therefor of \$300 a year. The increased facilities which it affords him for continued observations has more than justified the outlay.

#### ADDITIONAL BUILDINGS.

In the last annual report attention was called to the act of March 29, 1900, providing an increase of the state university levy of five one hundredths of a mill to be used solely for the erection and equipment of buildings.

Soon after the passage of said act it was decided, as soon as practicable, to erect a law building and then a building for the department of physics, and to have the plans, specifications and estimates for the former building matured so as to begin work as soon as funds arising from said increased levy should be available, which would be about the middle of March, 1901.

In the latter part of September, 1900, W. Stillman Dutton, of Cleveland, was employed as architect of the proposed law building, and shortly thereafter a committee consisting of Messrs. Godfrey and Mack of the board of trustees, Dean W. F. Hunter of the college of law, and the architect, was appointed to visit other institutions having law buildings with a view to profit by their experience.

The board of trustees, under your advice and counsel, decided to limit the cost of the proposed law building to \$75,000 and the architect was directed to prepare the plans accordingly. Great difficulty was met in getting the space and conveniences recommended by the law faculty as absolutely essential for the needs of the college within this sum, and it was not until the second day of April, 1901, that the plans, specifications and estimates were perfected so as to meet the requirements of the board. They were soon thereafter approved by yourself and the other state officers charged with this duty, due advertisement was made, and on May 16, 1901, the contract for the erection of said building was awarded to Mr. George Feick, of Sandusky, Ohio, he being the lowest bidder, at his bid of \$73,000. Work upon the building was begun shortly after this time and is now progressing favorably. It is hoped it will be ready for occupancy by September, 1902.

The exterior of the building will be of buff Bedford limestone and gray speckled brick. The entire basement will be of this beautiful stone. The main front of the building will be adorned with four Ionic columns about three feet in diameter and twenty-six feet high.

Although the structure is called a two-story one it is practically three stories high, as the basement rooms are intended to be used as class rooms when the demands of the college require additional space.

The first story is utilized for class and lecture rooms, seven in number, with seating accommodations for 500 students, and for the offices of the dean, the secretary, and the faculty. The check room and toilet rooms are also provided for on this floor.

Through the large central hallway a double staircase leads to the second floor, which is taken up by two large reading rooms each 39 feet by 102 feet in size, lighted from above, between which two reading rooms is a fire-proof room for the book stacks, which are designed ultimately to give shelving space to 50,000 volumes.

A separate reading room for graduate students is also provided on this floor, as is also a conversation room, and in connection with the main reading rooms are a number of smaller rooms designed as studies for the professors.

The building will be attractively finished within, the woodwork being of oak, and plate glass will be used in the windows. Ventilation will be supplied by forced draft fan system and artificial light will be supplied by electricity. The lighting both by natural and artificial means has received special attention and will be of the best order. The building will embody the good points of the best law buildings in the country.

At the time Mr. Dutton was employed as architect for the law building, Messrs. Peters, Burns & Pretzinger, of Dayton, were employed as architects for the proposed building for the department of physics. The board of trustees hopes to have plans for this building matured by the time the funds therefore are available, which will probably not be until the middle of March, 1902.

#### THE EXTENSION OF HEAT, LIGHT AND POWER PLANT.

The gradual introduction of electric power and light into all the laboratories and departments where these elements have been found useful and convenient had so drawn upon the capacity of the present plant that a portion of the time when the university was in session the engines and generators became overloaded beyond the supposed limit of safety. It was therefore decided that in view of the present needs and in view also of the additional power, light and heat required by the proposed new buildings, to extend the central plant by the purchase of an additional boiler, an additional engine, and an additional generator, with the accessories. Accordingly in April of the present year contracts were awarded to the Babcock-Wilcox Boiler Co. for a 150 H.P. water tube boiler and chain grate stoker at a cost of \$3,052; to the Westinghouse Electric and Manufacturing Co. for an alternating current generator, a multipolar exciter, a switchboard and the necessary instruments and accessories at a cost of \$5,850; and to the Watertown Engine Co. for a 150 H.P., direct-connected, high-speed, tandem, compound, automatic self-contained engine at a cost of \$2,150.

In addition to the above-named apparatus, contracts were made for steam separators and the necessary pipe, valves and fittings at an additional cost of \$576.05, making the total cost of the above apparatus \$11,628.05, to which must be added about \$1,000 for installation.

The contracts were let thus early in the hope that the additional plant might be installed during the summer vacation.

This addition to the plant will not only provide for present needs, but will also amply provide the additional heat, light and power needed for the above-named additional buildings.

#### THE CAMPUS.

There was expended during the year just closed for keeping the lawns, walks and drives in order the sum of \$1,075.06. No extension of improvements of the grounds was attempted for the reason that the funds of the university were insufficient to afford them.

When the buildings now being planned are erected it will be necessary to make quite extensive improvements in the direction of new walks and drives.

#### LIBRARY.

The expenditures for the library for the year ending June 30, 1901, exclusive of the salaries of the librarian and regular assistants were \$5,595.67. Of this sum there was paid for furniture, cases and shelving, \$175.13; for printing, stationery, and current supplies, \$191.54; for student assistance, \$339.63; for binding, \$855.60, and for books and periodicals, \$4,033.77.

The report of the librarian shows that the total number of books in the library June 30, 1900, was 35,431; that the additions during the year were 5,149, and that the total number in the library June 30, 1901, was 40,580.

The librarian's report also shows a steady increase in the use of the library, the average daily attendance from November, 1900, to April, 1901, being 514, as against 421 for the same six months of the previous year. The condition strongly emphasizes the need of a separate library building, which was presented in the last annual report, and the argument for which is again presented in the president's report filed herewith.

#### SUMMER SCHOOL OF AGRICULTURE.

In the summer of 1900, Professor Thompson and Professor Hunt joined in recommending the appointment of a committee to consider the advisability of establishing by the university itself or in connection with a number of the land grant colleges, a summer school for higher education in agriculture. Said recommendation was referred to the farm committee of the board of trustees who in September of that year made a report recommending that there be established at the Ohio state university a summer school for post graduate students in agriculture, in which leading professors of agricultural science in the United States and Canada shall be invited to conduct courses of study of a character suited to the needs of teachers, investigators and post graduate



students; that the first session begin on the first Monday in August, 1902, and continue four weeks; that the faculty be authorized to propose a program of exercises; and the president of the university be authorized to nominate to the board of trustees suitable persons to carry out said program, provided that the total expenses of the first session shall not exceed the sum of \$1,000. Said report was adopted by the board of trustees and at the meeting of the land grant college association at New Haven in November following, such action was reported by President Thompson and referred to the executive committee of that body.

Said committee at a meeting held in Philadelphia in May, 1901, after careful consideration and discussion adopted the following:

"The executive committee recommends that the association approve the suggestion of the Ohio state university that a graduate school of agriculture be held during the summer of 1902, and recommend the acceptance of its offer to furnish the necessary buildings and equipment and to assume the financial responsibility for the session.

The committee recommend also that if the success of this session seems to justify the continuation of such a summer school, it be assumed as a co-operative enterprise under the control of this association and the following outline plan is submitted as a basis for the discussion of the convention:

1. A "committee of control for the summer school" shall be appointed at each convention to consist of three persons one of whom shall be the president or some other duly authorized officer of the institution at which the next session is to be held.

2. The committee of control shall appoint a dean, and together with the dean, shall appoint the faculty, shall fix the work of the school and determine the duties, powers, and compensation of the officers of the school.

3. The association, either by itself or in co-operation with the institution at which the next session is to be held shall make provision each year for the expenses."

This report will come up for at a meeting of the land grant college association to be held in Washington, next November, and there is little doubt that the plan for a summer school of agriculture proposed by the Ohio state university will be approved by this association and thus a national character will be given to the enterprise.

#### FACULTY.

During the year just closed the university suffered a great loss in the resignation of Dr. J. P. Gordy, professor of education, who gave up his work at this university to accept a position at the university of New York, where he believed he would have a wider field of usefulness. During his services at the university he exhibited high qualities as a teacher and his loss is deeply deplored by the trustees, the faculty, and the students of his classes.

The other changes in the faculty and assistants are mentioned in the report of the president and in the annual catalogue for the year



ending June 30, 1901, which are filed herewith and made a part of this report..

The academic faculty is made up as follows: Presidents, 1; professors, 41; associate professors, 14; assistant professors, 17; lecturers, 1; instructors, 7; assistants, 28; fellows, 17; curators, 1; librarians, 1.

The position and compensation of the members of the faculty and other employes of the university are stated elsewhere in this report.

#### DEGREES CONFERRED.

On the recommendation of the faculty the following degrees were conferred:

##### MASTER OF ARTS.

Frank Arthur Bohn, B. Ph., Olmstead Falls, O.; Ellen Josephine Connor, B. Ph., Columbus, O.; Grace Lenore Pitts, B. Ph., Columbus O.; Margaret Glaze Pulling, B. Ph., Columbus, O.; Maud Raymond, B. Ph., Columbus, O.; Sheldon F. Smyser B. Ph., Indianapolis, Ind.

##### MASTER OF SCIENCE.

Herbert Charles Gore, B. Sc., Chicago, Ill.; Charles Hubbell Kimberly, B. Sc., N. Fairfield, O.

##### BACHELOR OF SCIENCE (IN AGRICULTURE).

Albert Frederick Conradi, Columbus O.; Merritt Harper, Grove City, O.; Cassius Clay Hayden, Oakdale, O.; Nelson Prentice Neill, Columbus, O.; John Cole Perry, Columbia Station, O.; Addison Hogan Snyder, Tacoma, O.

##### BACHELOR OF SCIENCE (IN DOMESTIC SCIENCE).

Clara Armstrong, Columbus, O.; Alice Bratton, Columbus, O.; Mary Crawford, Blaine, O.; Florence Harlow Derby, Columbus, O.; Mary Dresbach, Columbus, O.; Elma Brooks Perry, Troy, O.

##### BACHELOR OF ARTS.

Blanche Woodruff Butler, Wellsville O.; Walter Scott Collins, Columbus, O.; Elizabeth Pauline Courtright, Columbus, O.; George Codwise Dickenson, Chillicothe, O.; Will Comrie Hauk, S. Charleston, O.; Harry John Holcomb, Columbus, O.; Joseph Symmes Hunter, Seven Mile, O.; George Barlow Kirk, Columbus, O.; Velorous Martz, Columbus, O.; Frank Cowen McKinney, Columbus, O.; Simeon Nash, Zanesville, O.; Bertha Gildersleeve Paterson, Columbus, O.; Edith Rees, Columbus, O.; Faith Cornelia Welling, Worthington, O.

##### BACHELOR OF PHILOSOPHY (LATIN COURSE).

Edith Carlisle Corner, Columbus, O.; Stella Van Courtright, Columbus, O.; Alice Greenwood Derby, Columbus, O.; Gussie Howe Greener, Columbus, O.; Ethel Ada Hambleton, Columbus, O.; Henry Spencer Houghton, Cincinnati, O.; Mary Fulton Hunt, Columbus, O.; Clayton Charles Kohl, Perrysburg, O.; Alena May Mitzenberg, Columbus, O.; Marcia Inez Mock, Columbus, O.; George McClelland Parsons, Columbus, O.; Frank Joseph Pavlicek, Toledo, O.; George Henry Porter, New Philadelphia, O.; May Malvina Roney, Columbus, O.; Bertram Shearer Stephenson, Jackson, O.; Lila Lucile Ward, Perrysburg, O.

## BACHELOR OF PHILOSOPHY (MODERN LANGUAGE COURSE).

Henrietta Christine Kauffman, Columbus, O.; Margaret Glenn Kauffman, Columbus, O.; Florence Lentz, Marysville, O.; John S. Norris, Columbus, O.; Elmer Brooks Perry, Troy, O.

## BACHELOR OF PHILOSOPHY (ENGLISH COURSE).

Albert Merion Brown, Wauseon, O.; Frederick Eric Butcher, Buckland, O.; Anna Catherine Cannon, Columbus, O.; Charles Gilman Cunningham, Fostoria, O.; Samuel Clyde Durbin, McConnellsville, O.; Clara Converse Ewalt, Columbus, O.; Reuben Jacob Graham, Northup, O.; Frederick A. Miller, Columbus, O.; George Washington Murdock, Durango, Col.; Joseph Sylvester McDonald, Rendville, O.; William Lewis Nida, Lincoln, O.; Harry R. Shaw, Zanesville, O.; Wilmot Sperry, Jr., Mt. Vernon, O.; William Earl Whitaker, Colton, O.; John Wesley Whiteside, Bloomingburg, O.; Nelle Wright, Worthington, O.

## BACHELOR OF SCIENCE.

Danforth Ewers Ball, Columbus, O.; Stanley Grange Brooks, Columbus, O.; Robert Marcus Chamberlain, Columbus, O.; Rudolph Hirsch, Columbus, O.; Clarence Lemuel Elisha Moore, Washington C. H., O.; Marion Wilson Mumma, Dayton, O.; Ada Ruckle Needles, Groveport, O.; Samuel Torrey Orton, Columbus, O.; J. Sumner Teter, Columbus, O.; Albert Earl Vinson, Dayton, O.; Carrie Rosina Weick, Newark, N. J.

## CIVIL ENGINEER.

Moses Henry Barlow, Columbus, O.; Arthur Crable, Columbus, O.; Harry Ezra Cameron, Elizabeth, O.; Harvey Harter Cosley, Troy, O.; Frank Christian Kettler, New Bremen, O.; Herbert Sumner King, Medina, O.; Ralph Charles Miller, Zanesville, O.; Paul Dillon Ryland, Columbus, O.; John King Sherman, Columbus, O.

## MECHANICAL ENGINEERING (IN ELECTRICAL ENGINEERING).

Charles Wampler Denney, Middletown, O.; Roger Denison DeWolf, Madison, Ga.; Raymond Dill, Columbus, O.; Herbert C. Nidy, Greentown, O.

## MECHANICAL ENGINEER.

Adolph Joe Boehme, Youngstown, O.; George Robert Bott, Columbus, O.; Arthur George Richter Frechtling, Hamilton, O.; John Howard Lesh, Louisville, O.; John Douglas Martin, Jr., New Straitsville, O.

## BACHELOR OF SCIENCE (IN CHEMISTRY).

Albert Victor Bleininger, Cleveland, O.; Harry Thomas Hance, Columbus, O.; Otto Stanley Marckworth, Cincinnati, O.; Ralph Welty Nauss, Greenville, O.; Frank Bert Poto, Alliance, O.; Frederick Clarence Weber, Evanston, O.; Homer Davidson Williamson, Monroe, O.

## BACHELOR OF LAWS.

Justus Elvin Alvord, Bryan, O.; Frank Craig Amos, Sidney, O.; Harry Ernest Clum, Thornville, O.; Bernard Franklin Curran, Corning, O.; Harry Lea Doud, Norwalk, O.; Lyle Sanford Evans, Chillicothe, O.; Hanby Raymond Jones, Westerville, O.; Thaddeus Minshall, Chillicothe, O.; Henry Curtis Moore, Bainbridge, O.; Carl LeRoy Sackett, Big Horn City, Colorado; Roscoe Carleton Skiles, Shelby, O.; Edward C. Turner, Columbus, O.; Homer Franklin Wharton, Washington, O.; Allen Thurman Williamson, A. B., Marietta, O.; Wood Frank Worcester, Columbus, O.

## BACHELOR OF SCIENCE (IN PHARMACY).

Cyrus Homer Young, Columbus, O.

## DOCTOR OF VETERINARY MEDICINE.

Marion Imes, Bashan, O.; Albert Newton Irwin, Columbus, O.; Morgan Baxter Lamb, Barlow, O.; Robert Lyle McClelland, Andover, O.

On the recommendation of the faculty, certificates were granted to the following members of the law class showing that they had successfully and satisfactorily completed the course of study in the college of law but on account of deficient previous preparation were not entitled to a degree; said person having passed the state bar examination for authority to practice law: Edward Franklin Berry, Celina, O.; John T. Blake, Canton, O.; Theodore E. Bock, Hamilton, O.; Walton S. Bowers, Hamilton, O.; Claude Leon Brewer, Columbus, O.; James Earl Brown, DeGraff, O.; John T. Carey, Upper Sandusky, O.; Rawson King Carlin, Findlay, O.; Edward Nelson Conrad, Tiffin, O.; Wilford Edward Costello, Defiance, O.; Nathan Charles Dawson, Columbus, O.; Earl Summerville Downing, Middleport, O.; Carl Reed Dunlap, Columbus, O.; Harry Rathburn Farnham, Edgerton, O.; Don Juan Frankenberg, Tempe, Arizona; Harry Andrew Haberer, Dayton, O.; Frederick Mathas Hammond, Smithfield, O.; Frank Nathan Hammond, Smithfield, O.; Alonzo N. Jones, New Martinsburg, O.; Harry Gilbert Kinzel, Eagleport, O.; John Woods Lynch, Greenville, O.; Lewis Earl Mallow, Washington C. H., O.; James Wilford Miller, Bucyrus, O.; William D. Pence, Tiffin, O.; Albert Abner Porter, McConnellsville, O.; Bert Reed, Piqua, O.; Charles Grier Robinson, Rockaway, O.; John D. Rockhill, Alliance, O.; John William Shaw, Troy, O.; Wellington Cornell Smith, Lytle, O.; Hugh Allen Snapp, Miamisburg, O.; Meeker Terwilliger, Circleville, O.; Chester E. Vandersall, Burgoon, O.; Frederick Rollin West, Columbus, O.; Cortez L. Williams, Steubenville, O.; Horace Dye Worman, Dayton, O.; August R. Wulff, Dayton, O.

## NUMBER OF STUDENTS.

The enrollment of students for the year ending June 30, 1901, was as follows:

## COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE.

First Semester .....	456
Second Semester .....	423

## COLLEGE OF LAW.

First Semester .....	202
Second Semester .....	179

## OTHER COLLEGES.

Fall Term .....	694
Winter Term .....	692
Spring Term .....	545



The whole number in attendance during the year as shown by the catalogue was 1,465, as against 1,252 the previous year. The numbers in the several colleges, departments, and classes and the courses of study pursued in each are shown in the appendix to the president's report and in the catalogue filed herewith.

#### GIFTS DURING THE YEAR.

Among the most important gifts received during the year was a gift from the Hon. Joseph H. Outhwaite, of over 200 volumes of books in which are included the official reports of the Union and Confederate armies and navies and books of a similar character. The gift was duly accepted by the board of trustees, and as Mr. Outhwaite has expressed his intention to supplement the gift by adding from time to time other books of a similar character, they were placed in the library and designated as the "Outhwaite Collection of Works on the Civil War."

The university was also the recipient of the sum of \$100.00 each, from Mr. John Siebert and Mr. Louis Siebert, of Columbus, O. (Said sums to be used in the purchase of books for the "Siebert Library of German History.")

The university is also indebted to Kenneth D. Wood, an alumnus of the university, for about 150 volumes from the library of his grandfather, the late Perley Brown Johnson, of McConnellsville, O.

A list of further gifts to the library is attached to the report of the librarian for which the trustees hereby make due acknowledgment and tender to the donors the thanks of the university.

Following is a list of the donations made to the various departments and collections of the university, for which similar acknowledgement and thanks are tendered.

#### AGRICULTURE.

##### GIFTS.

Hon. J. McLain Smith, Dayton, O., three "Cleveland Bay" mares: "Jersica," No. 214; "Merry Miss," No. 395, and "My Lady," No. 396.

W. B. Smith & Son, Columbus, O., thirty-five dollars in cash prizes for students judging dairy cattle (given annually for several years past.)

Ohio Archæological and Historical Socieity, E. O. Randall, Columbus, O., Secretary, Volumes 7, 8 and 9, for department library. (Former volumes received through B. F. Gayman, Canal Winchester, O.)

M. T. Phillips, Pomeroy, Pa., one pair of Keystone dehorning clippers.

Jones National Fence Co., Columbus, O., two sections of Jones fence.

American Steel and Wire Co., Cleveland, O., two sections American steel wire fence.

Cyclone Fence Co., Holly, Mich., two sections Cyclone fence.

Page Fence Co., Adrian, Mich., one model of Page fence.

Huckins & Huckins, Oberlin, O., one dilution creamer.

Oaks & Burger, Cattaraugus, N. Y., one Baynard curd mill, one gallon rennet extract.

F. B. Fuller, Gouverneur, N. Y., one Fuller curd mill.



Chr. Hansen's Laboratory, Little Falls, N. Y., three dozen bottles Hansen's lactic ferment.

George Boyd, Toronto, Canada, samples of rennet extract and cheese color manufactured by L. C. Glad Co., Copenhagen, Denmark.

#### LOANS.

Flint & Walling Mfg. Co., Kendalville, Ind., seven hand pumps, one wind mill; Milwaukee Harvester Co., Chicago, Ill., one self-binder, one mower; Plano Mfg. Co., Chicago, Ill., one self-binder, one mower; Deering Harvester Co., Chicago, Ill., one self-binder, one mower; Warder, Bushnell & Glessner & Co., Springfield, O., one self-binder, one mower; D. M. Osborn & Co., Auburn, N. Y., one self-binder, one mower, one hay tedder; John Deere Plow Co., Moline, Ill., one new Deere Sulky Plow; Vermont Farm Machinery Co., Bellows Falls, N. Y., five cream separators; DeLaval Separator Co., New York, N. Y., six cream separators; P. M. Sharples, West Chester, Pa., one cream separator; United States Butter Extract Co., Bloomfield, N. J., two cream separators; National Dairy Machine Co., Newark, N. J., one cream separator; A. H. Ried, Philadelphia, Pa., two cream separators, two pasteurizers; F. B. Fargo & Co., Lake Mills, Wis., one Victor combined churn and worker; D. H. Burrell & Co., Little Falls, N. Y., one simplex combined churn and worker; Diamond Cheese Co., Vermillion, O., one Swiss cheese kettle; Arthur McClellan, Cable, O., one Kasper curd mill.

The department of agriculture has also received during the year fifty-two agricultural newspapers for the department library in exchange for the "Agricultural Student."

#### AGRICULTURAL CHEMISTRY.

From Arbuckle Bros., New York City, 26 samples of refinery sugars.

From Charles P. Fox, a set of Mexican specimens.

#### AMERICAN HISTORY AND POLITICAL SCIENCE.

Hon. Binger Herman, Commissioner of the General Land Office, 10 valuable maps.

Ex-President Grover Cleveland, fine portrait of himself with autograph signature.

#### ARCHAEOLOGY.

C. P. Thompson, Africa, Delaware county, O., has deposited in the museum for safe-keeping his large collection of nearly 1,000 pre-historic specimens, procured entirely from the county of his residence.

Mr. B. B. Herrick of Wellington, O., a gift of a number of arrow and spear points, axes and pestles, found on his farm near Wellington.

Miss Grace Houston, Columbus, O., a number of specimens of Chinese hand work, such as hats, shoes, mats, etc.

Dr. Irwin Schueller, Columbus, O., the large archaeological collection made by his father, the late Dr. John B. Schueller, a former trustee of the university, consisting of over 500 pieces taken from mounds in Franklin county.

Mr. Eugene F. Cranz, Ira, Summit county, O., a small but valuable collection found upon his farm in Summit county, O.

Miss Perla G. Bowman, a number of Chinese medicines and shoes from California.

Other donations than these have been made to the archaeological collections which have not been catalogued, but which will be mentioned hereafter.

#### CHEMISTRY.

The Southern Cotton Oil Co., a valuable collection of specimens illustrating the cotton seed industry.

## CIVIL ENGINEERING.

Professor Brown, the head of this department, reports no gifts worthy of mention during the year, but desires that proper acknowledgement be made to Mr. E. B. Pedlow, general superintendent of the Columbus and Hocking Coal and Iron Company, for giving the use of his grounds for a camp for the summer school of surveying.

## ELECTRICAL ENGINEERING.

From the Sprague Electric Company, a mounted collection of conduits.

From the Westinghouse Electric and Manufacturing Co., the General Electric Co., and the Ridgway Dynamo and Engine Co., collection of photographs.

## EUROPEAN HISTORY.

From John and Louis Siebert of Columbus, O., \$100 each, to be expended in the purchase of books for the "Siebert Library of German History."

## GEOLOGY.

From Mr. H. R. Postle, a graduate of the university, a fine collection of ores and associated minerals from the zinc and lead mines of Joplin, Mo.

## HORTICULTURE AND FORESTRY.

George W. Gill, Columbus, O., a cion of seedless apple.

W. R. Beattie, Washington, D. C., selection of apple cions from the department of agriculture at Washington.

I. L. Ferin, specimens of silver leafed linden from the department of agriculture at Washington.

Mathew Crawford, Cuyahoga Falls, O., a seedling grape.

S. J. Galloway, Eaton, O., three moth catchers.

The Golibart Root Sprayer Co., Holbrook, Ind., four samples of root sprayers.

## INDUSTRIAL ARTS.

The Pratt Chuck Co., Frankfort, N. Y., one drill chuck.

The Shaw Coupling Co., Syracuse, N. Y., ½-inch coupling.

## MECHANICAL ENGINEERING.

Standard Roller Bearing Co., Philadelphia, Pa., a full-sized roller bearing.

Locke Steel Belt Co., New York City; J. E. Rhoads & Sons, Philadelphia, Pa.; Jewell Belting Co., Hartford, Conn.; Main Belting Co., Philadelphia, Pa., samples of belting.

Joseph T. Ryerson & Son, Chicago, Ill., samples of the McGregor weldless steel boiler brace, the Sundberg forge steel pipe flange for boilers, and of Shelby cold-drawn seamless steel boiler tubes; the Homestead Valve Manufacturing Co., Pittsburg, Pa., and Bashlin & Co., Warren, Pa., samples of valves.

Hohmann & Maurer, Rochester, N. Y., a flue gas thermometer, with holder and leather case, graduated to 1000 degrees F.

The Reliance Gauge Column Co., Cleveland, O., sectional models of boiler gauge columns.

The Pittsburg Reduction Co., Pittsburg, Pa.; the Ansonia Brass and Copper Co. of Ansonia, Conn.; the William Cramp & Sons' Ship and Engine Co., Philadelphia, Pa.; the Phosphor Bronze Smelting Co., Philadelphia, Pa.; the Bethlehem Steel Co. of South Bethlehem, Pa., samples of alloys.

From the Raymond Lead Company, Chicago, Ill., presented through the Columbus Mill and Mine Supply Co., Columbus, O., a large collection of Babbett metals.

The Bethlehem Steel Co., samples of steel turnings made by the Taylor-White process.

From J. S. Coffin, Franklin, Pa., samples of covered oil holes.

From the Illinois Central Railroad Co., Chicago, Ill.; the Pennsylvania Lines of Columbus, O.; the Underfeed Stocker Co., Chicago, Ill.; Ball Engine Co., Erie, Pa.; Latrobe Steel Co. of Philadelphia, Pa., blue prints and catalogues.

Thanks are also tendered to the Columbus Machine Company of Columbus, O., for the loan of a generator to this department for a few days.

#### ESTIMATES.

The following are the estimates for the year ending June 30, 1902:

Law building .....	\$ 85,000 00
Physics building .....	30,000 00
Extension heat, light and power plant .....	13,000 00
Salaries .....	187,825 00
Bonds and interest .....	38,762 50
Expenses of trustees .....	600 00
Fuel and light .....	9,000 00
General repairs .....	6,200 00
Maintenance and repairs heat, light and power .....	3,450 00
Printing and advertising .....	2,700 00
Roads and grounds .....	3,700 00
Library .....	5,800 00
Chemical store room supplies .....	4,000 00
Water rates .....	1,200 00
Department apparatus and supplies .....	17,215 00
Incidentals .....	5,000 00
Improvement athletic grounds .....	1,000 00
Fire protection .....	600 00
Total .....	<hr/> \$415,652 50

which the anticipated income for the next university year is ample to meet.

The reports of the president, librarian, and treasurer are filed herewith and made a part of this report.

Respectively submitted,

ALEXIS COPE, *Secretary.*

## REPORT OF THE PRESIDENT.

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HON. J. McLAIN SMITH, *President of the Board of Trustees, Ohio State University*

DEAR SIR—The president submits herewith to the trustees of the Ohio state university his annual report for the year ending June 30th, 1901.

The year has been one of steady and substantial progress. The number of students enrolled was larger than ever before; the teaching force was enlarged to meet the growing needs and the quality of the work manifested the progressive spirit of the institution. One hundred and twenty-seven degrees were granted at the annual commencement. The general summary of the attendance is as follows:

### GENERAL SUMMARY.

#### COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE.

Graduate students .....	8	
Undergraduates .....	202	
	<hr/>	210

#### COLLEGE OF ARTS PHILOSOPHY AND SCIENCE.

Graduate students .....	43	
Undergraduates .....	439	
	<hr/>	482

#### COLLEGE OF ENGINEERING.

Undergraduates .....	508	
	<hr/>	508
College of law.....	220	
College of pharmacy.....	34	
College of veterinary medicine.....	27	
	<hr/>	
Total .....	1,481	
Names counted twice.....	16	
	<hr/>	
Net total .....	1,465	

### CHANGES IN THE FACULTY.

The detailed statement of the changes in the faculty will be found on page twenty-two, Part II of the report of the trustees. The most notable changes were the resignations of Professor J. P. Gordy and of Associate Professor Perla G. Bowman.

Professor Gordy had for five years been the active and aggressive head of the department of education. His admirable equipment for



his work, his wide acquaintance among the teachers of Ohio and his enthusiasm in teaching made his resignation a distinct loss to the University. The work is now in charge of David R. Major, Ph. D., whose preparation for his work and experience in teaching give assurance that the high standard hitherto set will be continued.

Miss Perla G. Bowman from the beginning of the work in domestic science has had charge of the department. Under her supervision this new department in education has steadily won its way and commands increasing confidence and patronage. She voluntarily resigned the work and will be succeeded by Professor Minnie A. Stoner, a teacher of wide experience whose education and training have been with the special purpose of developing education in this department.

#### FACILITIES AND ATTENDANCE.

The constant aim of the university has been to provide superior facilities for the lines of education provided by the state. The measure of success in this regard is well attested by the steady but rapid increase in attendance and in the commanding position occupied by the university. The time has now been reached when the facilities have been taxed to the limit. On the other hand there is every reason to believe that with the present organization the roll will, in a few years, reach eighteen hundred or perhaps two thousand students. During the current year eighty-six of the eighty-eight counties of the state were represented in the attendance. Twenty-one states, the District of Columbia, Cuba, India, Japan, Porto Rico, and the Argentine Republic sent students to the university. It appears reasonable to add that until the state has provided for an increase as suggested above, the university will not be fully equal to the demands. This crowded condition has taxed the revenues until further expansion is impracticable. Without suggesting any new lines the situation is now such that the present efficiency can not be maintained unless a limitation is placed upon the attendance. To such a proposition the state would not consent. Increased facilities are therefore the necessary consequence of the increased attendance.

#### A TEACHERS' COLLEGE.

Some years ago the university established a department of education with Professor J. P. Gordy in charge. This was an effort to meet, for a time, a demand for pedagogical instruction on the part of students proposing to teach and to add an important element to the curriculum of the university. The effort has served to emphasize the necessity of pedagogical and professional training for teachers in addition to higher attainments in scholarship. The feeling is universal at the university that it is not desirable to organize a normal school as ordinarily conceived, but that it would be most desirable to organize a first-class, high grade college for teachers where the best that is known

in the science of education may be taught and discussed. Such a college should prepare and equip our young men and women for the most important teaching positions in our state. The fact that no such a college is to be found in the central west suggests the opportunity that is before the Ohio state university. The preparation given at the ordinary normal school in an elementary way prepares a teacher for work in the grades only. The experience of other states has been so unsatisfactory as to suggest that Ohio shall profit by their experience rather than to blindly follow it. Intelligent men agree that a great service to the cause of education and to the public would be rendered if adequate professional training could be given to the teachers in our high schools. The state of Ohio now needs the organization of several hundred township high schools. She needs better teaching in schools already organized. Persons who desire advanced professional training find it necessary to seek it elsewhere. Ohio has not yet made such provision. The university is aware of the widespread desire among the teachers of the state for such a college. It is also recognized that provision has been made for the general education of the youth of the state and for technical and professional education in other lines. The teaching profession affects the public so directly that the argument for the special professional education of teachers is with difficulty resisted. Inability, not unwillingness, has caused the delay in this important work. It is recognized that with the other educational facilities provided by the state, a college for teachers would have a stimulating and helpful environment. Such a college could be provided at the university at a minimum expense. Its service to the cause of education, to the high schools of the state and to the young men and women proposing to teach would be of increasing value. The hope is here expressed that the legislature of the state may give this question due consideration and provide such revenues as will enable the university to proceed with the work.

#### A SUMMER SCHOOL.

For some years summer schools, ordinarily for a term of six weeks, have been conducted in various places throughout the country. They have arisen in response to a demand among the teachers of the country to pursue during vacations some educational work. The desire among the teachers was so commendable and so much in harmony with the progressive spirit in the teaching profession, that many colleges have felt it incumbent upon them to make some provision to meet the desire of teachers. Incidental to this many students desire to make up deficiencies in their preparation for entrance to college and in some cases, to secure credit for more advanced work than might be pursued. In the earlier years of this movement a summer school was conducted at the Ohio state university, but for a variety of reasons was discontinued. Recently certain organizations of teachers have formally re-

quested the university to organize a summer school. Inquiries from individuals indicate a considerable interest. The opportunity for such a school to help the teachers of the state is so important that it is due to them that a summer school should provide the best teaching talent available and not depend upon men of little experience or men unacquainted with the needs of teachers in our public schools. Such a school should not be a money making institution. It ought to be a money spending enterprise and should be conducted in the presence of the best educational facilities. Less than this is hardly just to those who spend their time and money for that which is not bread. The subject should have most earnest consideration.

#### FOUR TERMS IN THE YEAR.

Recent years have seen the experiment of conducting universities four terms a year or forty-eight weeks with four vacations of a week each. The success attending such efforts has not been unqualified but the experiment has attracted the attention of the public to important features in our educational work. The plan of the modern university represents a large investment. The Ohio state university will soon have more than a million dollars in buildings not to speak of the investment in apparatus and real estate. For such an investment to lie idle one-fourth of each year is no small consideration. There are many people in position to pursue education in the summer months more easily than at any other season. Others are able to pursue their studies without interruption and thus save an important item of time. Such an organization of a university for the summer is a much better provision than is possible in a summer school. Among other considerations it will be observed that a more flexible curriculum would be necessary and that the advantages from the doctrine of continuity as applied to the subjects of the curriculum would in part at least be lost. A considerable increase in the teaching force becomes a necessity as teachers could not long maintain the strain of continuous service. The increase in current expense would be considerable, but the proportionate expense for forty-eight weeks would be less than for the present method of thirty-six weeks. The considerations for such a change are so important that the state will do well to give them thoughtful attention.

#### BUILDINGS.

In the report submitted last year attention was directed to the need of improvement in buildings. An increase of something more than two-hundred and twenty-five students a year has added emphasis to what was said at that time.

During the year work was begun on the building for the college of law. It is hoped that by July, 1902, the work will be completed. The appropriation for the physics building will be available after March,



1902, by which date it is hoped the building will be begun. When these buildings shall be completed some relief will be given to the present crowded condition of University Hall. The Chemical Hall is so overcrowded that the enlargement already suggested is a most pressing necessity. Hayes Hall has for two years been inadequate to the demands. In certain subjects space and equipment are absolutely necessary. The work can not be divided to advantage. The increase of students demands an increase of space if proper results are expected. The revenues are not equal to the case and it would seem necessary for the legislature to appropriate for this purpose from the general revenue fund or to make provision by a special levy.

#### THE COLLEGE OF ENGINEERING.

The growth of the College of Engineering has been so phenomenal and its prospects are so flattering that the question of properly providing for its work can not long be deferred. Whether a very large building or a group of smaller buildings would be preferable might be difficult to decide. At all events from three to four hundred thousand dollars would be necessary to make anything like adequate provision for the several lines of engineering already established.

#### A WOMAN'S BUILDING.

The necessity for a woman's building becomes more apparent. The present Armory would not be more than adequate for the young men and the Battalion if the entire building were at their disposal. As the roll increases the demand for room increases. It is to be remembered that in early years but few young women enrolled. No provision seemed necessary. But now that the number of young women is increasing and will rapidly increase in the event that a Teachers' College is organized, the need of such a building cannot be overlooked. Such a building should provide suitable quarters for physical culture and rooms at the disposal of the young women for study, rest and such social life as would be incident to college life on the campus. The conditions are such at present as to make the University unattractive to young women from every point of view except that of the class room instruction.

#### THE COLLEGE OF VETERINARY MEDICINE.

The growth of this College is very gratifying and is evidence of the enlarged field open for this science. The need of suitable buildings for this work has been recognized for some time by the Trustees. I take pleasure in quoting with my hearty approval, the following extract from a recent communication by Dr. David S. White to the president:



## BUILDINGS.

The necessity for better buildings to properly house the College has been discussed for some time. It is generally admitted that the present small brick structure (the Veterinary Hospital), and the wooden sheds about it, are inadequate to the needs of the various departments constituting the College. With the exception of a small laboratory, which accommodates only eight students, no class-room work can be done at this building. All class-room work, therefore, must be arranged for in other buildings already crowded. In the department of veterinary anatomy, this separation of class-room exercise from demonstration material is especially felt, and the work of the department thus greatly handicapped. This unfortunate condition prevails as well in all other departments of the College, which makes it impossible to obtain the best results in giving instruction. The University has now in its employ some of the best trained veterinarians in the country. The location of the College in a large city in one of the best states in the Union, centrally located and with large live stock interests, presents a field for work unparalleled along veterinary lines. The best veterinary institution in America can be built upon our campus. In no other place does the outlook seem more favorable. Outside of the instructional feature, there is a large scope of original, scientific investigation of animal diseases and especially those diseases directly or indirectly transmissible from animal to man. Sooner or later the people of the state will expect the University to enter this field and attempt the answering of any questions which are still open ones in science. We should be ready to meet this demand. Other states have already taken steps in this direction. New York leads with its \$175,000.00 veterinary plant at Cornell, to which the state makes a \$25,000 yearly endowment; Pennsylvania is to rebuild its present plant, which cost \$150,000.00; Iowa has expended several thousands of dollars to better equip and house its veterinary college at Ames; Illinois has rebuilt and re-equipped its school; Massachusetts has a newly erected veterinary building; Washington is contemplating putting up suitable buildings for the veterinary department at Pullman, and so on through a long list. Recent improvements in European schools, space forbids mentioning here. Now is the opportune time for Ohio to lend both encouragement and financial aid to her College of Veterinary Medicine. Its success will be then doubly assured.

These facts set forth the need in a modest way. I can not urge too strongly the importance of action by the legislature for this work.

## BOTANY AND HORTICULTURE.

Reference to the report from Professor Kellerman will reveal the necessity for some more adequate provision in the work of Botany. I quote, with approval, the following from a communication submitted to the president:

"I desire to emphasize again the pressing necessity of a proper botanical building, to the end that suitable facilities for class instruction and laboratory work may be furnished and that a safe depository be provided for the important collections now in the department. The collections could not wholly be replaced should they be destroyed by fire and such a calamity might at any time occur, for no building perhaps on the campus is so inflammatory as the Botanical Hall. The building is not at all adequate for the use to which it is put and students are at a great disadvantage as compared with those in other large universities. I would, therefore, most respectfully and urgently request that, if proper, the legislature in next session be asked to provide means for a proper botanical building, as well as for other pressing needs of the University."

The large and increasing collection of material for scientific purposes is of great value. Its value increases from year to year. It would be impossible to duplicate some of the material and a matter of great expense and labor to renew that portion which could be duplicated. The building is taxed to furnish accommodation for students. It is an old structure of cheap construction that should be replaced by a fire-proof building. The work in Horticulture and Forestry is inadequately provided for. The University has outgrown these provisions. A suitable building to accommodate both departments would be a great advance not only in preserving valuable material now on hand and in making adequate provision for students, but providing a kind of headquarters for a kind of scientific work in which the Ohio State University stands practically alone.

#### THE LIBRARY.

The report of the librarian for the year ending June 30th, 1900, called attention to the needs of the library including a suitable building. The report for the year ending June 30th, 1901, emphasizes every statement of the previous report. The increase of students and books makes increasing demand for space and accommodation. The space now at our disposal is limited. The modern library is the working laboratory of every department in the university. As things now are it becomes necessary for advanced students and professors to go long distances to secure proper library accommodations. The Ohio State University is deficient in this regard. The fact that the university is so young is a partial explanation of this condition, but is not a satisfactory reason for continuing it. There is much that can be said in support of the proposition that the Ohio State University should have a library of such character that the history of our own state could be written from the material in hand. No such library exists in Ohio today. To find this material we must go to the Northwest or the East. In many other lines the same deficiency exists. No adequate provision can be made for higher education and especially for graduate work in Ohio, until a library is at hand. The first movement should be a large fire-proof building so constructed that it could be enlarged once in a generation to meet the new needs that will arise. Such a building should be accessible and of service to every department in the University, and should not be a cheap structure, but the most expensive single building on the campus. This movement is of such importance as to demand the careful and individual attention of the trustees and of the legislature.

In closing what I have to say on the subject of buildings, it should be kept in mind that hitherto the University has built on too small a scale. The overcrowded condition of the present buildings is a matter of congratulation from one point of view and of regret from an-

other. It is hoped that future buildings will have reference to future needs and provide liberally for the youth of the state. The expenditure of a half a million dollars would not more than meet present needs. A comparative study of the receipts of other universities both state and denominational will show that the Ohio State University has not kept pace with them on the side of material equipment. The proposition of limiting the number of students would not be kindly accepted by the state. On the other hand to accept students beyond our ability to provide for them is hardly fair to the student. We are now confronted with the problem and ask for it a most earnest consideration.

#### CONCLUSION.

In concluding this report, I cheerfully make acknowledgment of the uniform courtesy and kindness shown me by both Trustees and Faculty. It is a pleasure to testify to the increased efficiency of the Faculty and to the conscientious devotion of the Trustees to the University.

Very Respectfully,

W. O. THOMPSON.

TABLE I—THE WORK OF INSTRUCTORS, 1900-1901.

Subjects.	Hours per week.						Number of Students.		
	Lectures.			Laboratory.					
	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.
<b>AGRICULTURE.</b>									
Animal Mechanics and Exterior (14) ..	3	.....	.....	2	.....	.....	14	.....	.....
Butter and Cheese Making (15) .....	.....	2	.....	.....	8	.....	.....	26	.....
Breeds of Live Stock (8)† .....	3	.....	.....	2	.....	.....	31	.....	.....
Principles of Breeding (9) .....	.....	3	.....	.....	2	.....	.....	35	.....
Stock Feeding and Hygiene (10) .....	.....	.....	3	.....	.....	2	.....	.....	28
Farm Equipment (11) .....	3	.....	.....	2	.....	.....	25	.....	.....
Soils (12) .....	.....	3	.....	.....	6	.....	27	.....	.....
Farm Crops (13) .....	.....	.....	3	.....	.....	2	.....	.....	17
History of Agriculture and Rural Economics (16) .....	.....	.....	4	.....	.....	.....	.....	.....	15
Dairy Farming (5) .....	.....	3	.....	.....	2	.....	48	.....	.....
Butter Making and Cheese Making (7) ..	.....	2	.....	.....	.....	.....	47	.....	.....
Butter Mak'g and Cheese Mak'g (7) .....	.....	2	.....	.....	.....	.....	4	.....	.....
Milk Sanitation (17) .....	1	.....	.....	4	.....	.....	7	.....	.....
Special .....	.....	1	.....	.....	4	.....	6	.....	.....
Thesis .....	1	.....	.....	.....	1	1	4	4	4
<b>AGRICULTURAL CHEMISTRY.</b>									
Principles, Nomenclature, etc. (1) .....	2	.....	.....	6	6	.....	70	.....	.....
Organic Chemistry (8) .....	.....	2	.....	.....	1	6	60	.....	.....
Applications of Chemistry to Agr. (9) ..	.....	.....	2	.....	.....	.....	.....	.....	48
Laboratory (4) .....	.....	.....	.....	10	10	10	28	30	19
Chemistry of Milk and Milk-testing (7) ..	.....	2	.....	.....	4	.....	43	.....	.....
Laboratory (6) .....	.....	.....	2	.....	10	10	.....	2	2
<b>ANATOMY AND PHYSIOLOGY.</b>									
Human Anatomy and Physiol. (1, 51, 52) ..	6	6	6	2	2	4	90	84	76
General Physiology (2) .....	.....	.....	3	.....	.....	$\frac{1}{2}$	.....	.....	7
Histology and Hist-Chemistry (59, 4) .....	3	3	3	7	7	7	19	15	4
Physiological Laborat'y (53, 54, 55, 56) ..	3	3	3	7	7	7	7	5	6
Bacteriology (61, 60) .....	1	1	1	4	6	4	6	5	4
Microscopy (5, 58) .....	.....	.....	1	.....	.....	3	.....	.....	10
Thesis and Similar Work .....	.....	.....	.....	2	2	2	5	5	4
Chemical Physiology (3) .....	.....	.....	2	.....	.....	4	.....	.....	8
Bacteriology (6, 7, 8) .....	.....	2	1	.....	1	3	82	.....	10
<b>ASTRONOMY.</b>									
Astronomy and Geodesy (5, 6) .....	.....	.....	4	8	3	8	7	25	18
General Astronomy (61, 62) .....	.....	2	2	.....	.....	.....	9	.....	9
Advanced Astronomy (55, 56) .....	2	.....	.....	.....	.....	.....	2	.....	.....
Astronomy (54) .....	.....	5	.....	.....	.....	.....	.....	1	.....
Meteorology (3) .....	.....	.....	2	.....	.....	.....	.....	.....	9
Thesis and similar work .....	.....	.....	.....	.....	7	7	.....	1	1

† The figures in brackets are the department numbers—for which see Part II of this report.



TABLE I—THE WORK OF INSTRUCTORS, 1900-1901 — Continued.

Subjects.	Hours per week.						Number of Students.		
	Lectures.			Laboratory.					
	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.
BOTANY.									
Ecology and Physiology (51).....	2	.....	.....	2	.....	.....	27	.....	.....
Morphology and Classification (52)....	2	.....	.....	.....	2	.....	27	.....	.....
Physiological Botany (6).....	3	.....	.....	4	.....	.....	39	.....	.....
Medical Botany (4).....	.....	.....	.....	.....	4	.....	.....	9	.....
Systematic and Physiological Bot'y (55)	3	.....	.....	4	.....	.....	9	.....	.....
Physiological and Economic Botany (7) .....	.....	3	.....	.....	4	.....	.....	30	.....
Laboratory Work.....	.....	.....	.....	6	12	6	4	32	32
Elementary Botany (1).....	.....	.....	3	.....	.....	4	.....	.....	50
Economic Bot'y and Veg. Pathology (8) .....	.....	.....	3	.....	.....	4	.....	.....	28
Spe'ial and Adv'd Work (59, 61, 63, 65) .....	.....	.....	.....	2	2	2	3	3	3
CLAY WORKING AND CERAMICS.									
Ceramic Chemistry (3).....	.....	.....	2	.....	.....	15	.....	.....	9
Lectures (4) .....	5	.....	.....	.....	.....	.....	.....	9	.....
Analysis of Clays and Minerals (2).....	.....	2	.....	.....	15	.....	.....	9	.....
Lectures (6) .....	.....	.....	10	.....	.....	.....	.....	.....	11
Analysis of Glasses and Glazes (1, 7) ..	2	.....	.....	15	10	.....	8	2	.....
Manufacture of Bricks (5).....	.....	5	.....	.....	.....	.....	.....	12	.....
Thesis and Similar Work.....	.....	.....	.....	25	20	20	1	1	1
Laboratory (9, 10, 11).....	.....	.....	.....	15	15	15	1	3	3
Cement Lectures (12) .....	.....	5	5	.....	.....	.....	1	5	4
Ceramic Structures (13).....	.....	1	.....	.....	4	.....	.....	2	.....
General Principles of Applied Ceramics .....	.....	.....	3	.....	.....	.....	.....	.....	4
CHEMISTRY.									
Elementary (51, 52).....	3	3	.....	7	7	.....	58	62	.....
Elementary (7) .....	7	7	.....	68	68	.....	228	198	.....
Qualitative Analysis (12, 13).....	.....	1	2	.....	1	28	.....	4	52
Qualitative Analysis (53).....	1	.....	.....	4	.....	.....	10	.....	.....
Quantitative Analysis (55, 56, 20)....	1	2	2	15	17	15	14	15	12
Organic (57, 58, 8, 18).....	5	2	2	.....	9	9	20	18	13
Advanced Chemistry (59, 60).....	.....	.....	.....	2	4	.....	5	5	.....
Applied Chemistry (16).....	.....	4	.....	.....	.....	.....	.....	7	.....
Toxicology (11) .....	.....	.....	4	.....	.....	.....	.....	7	.....
Thesis and Similar Work.....	.....	.....	.....	2	4	4	8	6	6
Inorganic Preparations (61a, 17).....	1	.....	1	2	.....	7	6	.....	8
Sanitary Analysis (15).....	.....	.....	1	.....	.....	3	.....	.....	5
Physical Chemistry (21).....	2	2	2	.....	.....	.....	24	20	20
CIVIL ENGINEERING.									
Land Surveying (1).....	10	.....	.....	4	.....	.....	31	.....	.....
Topography (4) .....	.....	$\frac{1}{2}$	.....	.....	9	.....	.....	26	.....
Railroad Surveying (2).....	.....	.....	9	.....	.....	20	.....	.....	22
Topographical Surveying (3).....	1	.....	.....	6	.....	.....	23	.....	.....
Stereotomy (6) .....	.....	4	.....	.....	9	.....	.....	25	.....
Bridge Strains (7).....	.....	.....	5	.....	.....	.....	.....	.....	22

TABLE I—THE WORK OF INSTRUCTORS, 1900-1901—Continued.

Subjects.	Hours per week.						Number of Students.		
	Lectures.			Laboratory.					
	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.
CIVIL ENGINEERING — Concluded									
Bridge Designing (8).....	2	.....	.....	8	.....	.....	9	.....	.....
Civil Engineering Laboratory (14).....	.....	.....	.....	.....	8	.....	.....	11	.....
Sanitary Engineering (10).....	.....	.....	5	.....	.....	.....	.....	.....	8
Masonry Construction (15).....	5	.....	.....	.....	.....	.....	14	.....	.....
Highways (16).....	.....	5	.....	.....	.....	.....	.....	23	.....
Railway Location (17).....	.....	5	.....	.....	.....	.....	.....	12	.....
Water Supply (18).....	.....	.....	5	.....	.....	.....	.....	.....	11
Trusses (19).....	.....	.....	5	.....	.....	.....	.....	.....	24
Surveying (21).....	.....	.....	2	.....	.....	4	.....	.....	10
Thesis and Similar Work.....	.....	.....	.....	2	5	10	8	10	.....
Roof Trusses (20).....	2	.....	.....	6	.....	.....	3	.....	.....
Drawing of Engineering Structures (24).....	.....	½	.....	.....	10	.....	.....	26	.....
DOMESTIC SCIENCE.									
Domestic Ecconomy (7, 8, 9).....	1	1	1	6	6	6	8	7	6
Domestic Economy (1, 2, 3).....	1	2	1	12	12	12	21	19	18
Domestic Economy (4, 5, 6).....	1	1	1	6	6	6	10	7	6
Domestic Economy (10).....	.....	.....	2	.....	.....	.....	.....	.....	.....
Thesis Work.....	.....	.....	.....	4	4	4	.....	.....	.....
DRAWING.									
Freehand Drawing (1).....	.....	.....	.....	24	24	12	269	250	34
Lettering (2).....	.....	.....	.....	.....	.....	12	.....	.....	182
Mechanical Drawing (3).....	2	4	2	8	8	12	102	99	79
Draughting and Blue Printing (4).....	.....	1	.....	.....	4	.....	.....	6	.....
Photography (7).....	1	.....	1	4	.....	8	11	.....	40
Mechanical Drawing (8).....	1	1	.....	2	2	.....	10	8	.....
Mechanical Drawing (10).....	2	.....	.....	6	.....	.....	51	.....	.....
Pen Drawing (14).....	.....	1	.....	.....	8	.....	.....	5	.....
Pen Drawing (11).....	1	.....	.....	4	.....	.....	5	.....	.....
Domestic Architecture (15).....	.....	1	1	.....	2	2	.....	7	.....
Technical Drawing (5).....	1	.....	.....	6	.....	.....	31	.....	.....
Decoration and Ornament (5).....	.....	2	.....	.....	1	.....	.....	2	.....
Architecture (6).....	.....	.....	2	.....	.....	4	.....	.....	2
Architecture (8).....	.....	.....	2	.....	.....	6	.....	.....	4
Arts (17, 18, 19).....	1	2	2	4	4	8	19	22	26
Architecture (3).....	2	2	2	6	6	6	3	2	2
Architecture (4).....	2	.....	.....	.....	.....	.....	3	.....	.....
Architecture (7).....	.....	3	.....	.....	4	.....	.....	2	.....
Drawing (16).....	.....	.....	1	.....	.....	4	.....	.....	10
History of Architecture (9, 10, 11).....	3	3	3	.....	.....	.....	4	4	3
Architecture (12, 13, 14).....	.....	.....	.....	4	4	4	4	4	3

TABLE I—THE WORK OF INSTRUCTORS, 1900-1901—Continued.

Subjects.	Hours per week.						Number of Students.		
	Lectures.			Laboratory.			First Term.	Second Term.	Third Term.
	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.			
*ECONOMICS.									
Elements of Political Economy (51, 52)	8	8	....	4	4	....	55	75	....
Practical Problems in Economics (55) ..	2						40		
Industrial and Social Reforms (56) .....		2						42	
Commerce and Trade (66) .....		2						9	
Ind'ial and Fin'ial His'y of the U. S. (60)		2						24	
Seminary (61, 62) .....	2	2		2	2		5	5	
Finance (59) .....	2						14		
Money and Banking (58) .....		2						17	
Sociology and Statistics (63 64) .....	1	1		1	1		12	12	
Commercial Geography (65) .....	2						8		
Thesis and Special. ....				12	12		3	3	
Socialism (54) .....		2						17	
Transportation (57) .....	2						23		
ELECTRICAL ENGINEERING.									
Electrical Engineering (2) .....	5	5	5				5	10	10
Electrical Designing (3) .....				6	6	6	4	10	10
Electrical Laboratory (4) .....				9	9	9	4	7	10
Electrical Engineering (6) .....	2	2					10	4	
Electrical Engineering (7) .....				4	16		18	20	
Direct Current Dynamos (8) .....	4							13	
Altern'g Current Circuits of mach'y (4) ..		3			6			5	5
Transmission and Distribution (12) .....		2						5	
Dynamo Laboratory (4) .....					8	10		4	4
Dynamo Design (3) .....					6	6		5	5
Elementary Dynamo Lab. (9) .....						2			
Application of Electricity (14) .....			5						6
*ENGLISH LITERATURE.									
Introduction to Eng. Literature (51, 52) ..	8	8					74	53	
The English Bible (55, 56) .....	1	1					6	7	
Shakespeare (57) .....	3						30		
Poetry from Spencer & Milton (53) .....	2						19		
Chaucer (67) .....	2						4		
Masterpieces (65, 66) .....	3	3					15	10	
Thesis Work .....				4	8		4	5	
Literary Problems (69, 70) .....	2	2					8	7	
Prose from Cowper to Victorian Age (63) ..	3						24		
Elizabethan Drama (58) .....		3						19	
Prose from Sidney to Milton (54) .....		2						13	
Cowper to Victorian Age (64) .....		3						25	
Translation (68) .....		2						10	
Graduate Special. ....	6						4		

\*Semester work.

TABLE I—THE WORK OF INSTRUCTORS, 1900-1901 — Continued.

Subjects.	Hours per week.						Number of Students.		
	Lectures.			Laboratory.					
	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.
*EDUCATION.									
Elementary Educat'l Psychology (51) ..	4						27		
Modern Educational Theories (52) .....		4						14	
History of Education (53) .....	4						14		
The Herbartian Pedagogy (55) .....	2						4		
Philosophy of Education (58) .....		4						10	
Plato's Republic (54) .....		2						4	
Educational Value (67, 68) .....	2	2					6	4	
Memory Training .....		1						15	
Child Study (59) .....	2						6		
Scientific Method (69, 70) .....	2	2					6		
Pedagogical Research (72) .....		2						3	
GEOLOGY.									
Cosmical Geology (61, 62) .....	3	3	3	3	2	2	21	17	15
Elementary Geology (4) .....		2	4		8	2		2	3
General Geology (2, 5) .....	3	5		8	2		21	35	
Paleontology (53, 54) .....				10	10	10	5	5	4
Petrography (55, 56, 7) .....		1		6	8	4	2	8	2
Physical Geography (1) .....			5						25
Economic Geology (5, 6) .....		6	5		2				26
Thesis Work .....				2	2	2	1	1	1
Field Geology (59) .....				6	4	8	2	2	12
Philosophy .....	2	2	7				5	5	
GERMAN LANGUAGE AND LITERATURE.									
Elementary German (1, 51, 52) .....	16	16					215	168	
Science Reading (2, 53, 54) .....	8	8					72	43	
German Literature (4, 55, 56) .....	8	8					41	37	
The German Drama (57) .....	3						13		
The German Prose (58) .....		3						16	
Faust I (59, 60) .....	2	2					12	12	
Colloquial Exercises (65, 66) .....	2	2					6	3	
Phonetics (75) .....	1						4		
Sanskrit (71,72) .....	2	2					1	1	
Old Norse (69) .....	2						2		
Comparative Grammar (70) .....		2						3	
*GREEK LANGUAGE AND LITERATURE.									
Greek Lyric Poetry (68) .....		2						3	
Elementary Greek .....	5	5					9	9	
Xenophon's Memorabilia (51) .....	4						22		
Odyssey (52) .....		4						25	
Lysias (53) .....	4						17		
Homer (54) .....		4						18	

\*Semester work.



TABLE I—THE WORK OF INSTRUCTORS, 1900-1901 — Continued.

Subjects.	Hours per week.						Number of Students.		
	Lectures.			Laboratory.					
	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.
*GREEK LANGUAGE AND LITERATURE									
—Concluded.									
Mediæval Art (63, 64).....	2	2					12	8	....
Attic Drama (69, 70).....	3	3					3	2	....
Graduate.....	$\frac{1}{2}$	$\frac{1}{2}$					1		....
Private Life of Greeks (67).....	2						2		....
HISTORY AND POLITICAL SCIENCE.									
HISTORY.									
General History of Europe to close of Middle Ages (151).....	6						85		....
From close of Middle Ages to French Revolution (152).....		6						73	....
Political and Constitutional History of England to the Accession of the Stuarts (153).....	3						26		....
History of Europe—1789 to 1815 (155)..<	3						3		....
*HISTORY AND POLITICAL SCIENCE.									
HISTORY.									
From Accession of Stuarts to Present Time (154).....		3						22	....
Political and Constitutional History of United States (55, 5, 56).....	8	8					58	42	....
Roman History and Institutions (157).....	2						11		....
History of Europe since 1815 (158).....		3						12	....
The Protestant Reformation.....		2						6	....
Pro-Seminary (61, 62).....	2	2					12	11	....
Constitutional History of the United States (65).....		3					54		....
American Diplomatic History (66).....		4						49	....
Historical Bibliography (71, 72).....	1	1					23	20	....
Territorial Development of the United States from 1850 to 1900 (74).....		2						6	....
Origin and Adoption of the Constitution (73).....	2						7		....
Graduate Seminary (75, 76).....	2	2					3	3	....

\*Semester work.

TABLE I—THE WORK OF INSTRUCTORS, 1900-1901 — Continued.

Subjects.	Hours per week.						Number of Students.		
	Lectures.			Laboratory.					
	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.
*HISTORY AND POLITICAL SCIENCE. — Concluded.									
POLITICAL SCIENCE.									
Municipal Government (52).....	2						32		
Government of Dependencies (55).....		2						37	
Political Institutions of the United States (53) .....	3						27		
Comparative Political Institutions of Europe and America (54).....		3						25	
History of Diplomacy (56).....		2						21	
Thesis Work.....				7	7		27	27	
Seminary in Political Science ..	2	2					15	14	
Graduate Work.....		1		1			2	2	
HORTICULTURE.									
Elements of Horticulture (1, 2, 3).....	3	2	6	2	4	4	32	5	25
Pomology and Viticulture (5).....	2			3			25		
Vegetable Gardening and Seed Growing (6).....		2			4			27	
Small Fruit Culture (7).....			3			2			7
Elements of Floriculture (8).....	2			1			8		
Commercial Floriculture (9).....		1			2			7	
Home Flower Gardening (10).....			2			2			6
Arboriculture (11).....	1			2			4		
Forestry (12).....		2			1			5	
Landscape Gardening (13).....			2			2			7
Special .....	1	1		6	1		1	1	
INDUSTRIAL ARTS AND SHOPWORK.									
INDUSTRIAL ARTS.									
Tools and Machines (1).....	3	3	3				4	2	2
Machine Design (7).....						6			8
Workshop Appliances (5).....			3						7
Special .....						8			2
SHOPWORK.									
Carpentry and Pattern Making (7, 1) ..				6	6	6	46	24	69
Forging (11, 2).....				6	16	12	33	51	32
Foundry Work (3).....				4			38		
Chipping and Filing .....				10	10	10	19	40	22
Machine Work (13).....				6	16	6	11	20	33
Advanced Machine Work (14).....				6	6	6	20	1	13
Advanced Pattern Making (9).....					6	6		8	1
Advanced Forging (12).....						6			4
Advanced Machine Work (15).....				8	8	10	1	16	2

\* Semester work.

TABLE I—THE WORK OF INSTRUCTORS, 1900-1901—Continued.

Subjects.	Hours per week.						Number of Students.		
	Lectures.			Laboratory.					
	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.
*LATIN.									
Cicero Livy (51).....	12	.....	.....	.....	.....	.....	61	.....	.....
Plautus, Terence (52).....	.....	12	.....	.....	.....	.....	.....	58	.....
Horace (53) .....	8	.....	.....	.....	.....	.....	38	.....	.....
Juvenal, Pliny (54).....	.....	8	.....	.....	.....	.....	.....	34	.....
Cicero's Philosophy (69) .....	3	.....	.....	.....	.....	.....	5	.....	.....
Seneca (70) .....	.....	3	.....	.....	.....	.....	.....	5	.....
Pharmaceutical (1, 59, 60) .....	5	5	5	.....	.....	.....	13	12	13
Thesis and Similar Work.....	.....	.....	.....	.....	2	.....	.....	1	.....
Prose Composit'n and Tr'slat'n (63, 64).....	2	2	.....	.....	.....	.....	7	5	.....
Latin Writing (75, 76).....	2	2	.....	.....	.....	.....	6	5	.....
Later Latin Writers (66).....	.....	3	.....	.....	.....	.....	.....	4	.....
Roman Antiquities (73, 74) .....	.....	2	.....	.....	.....	.....	5	5	.....
Roman Rhetoric and Oratory (65).....	3	.....	.....	.....	.....	.....	5	.....	.....
MATHEMATICS.									
Elementary Algebra (1).....	5	.....	.....	.....	.....	.....	17	.....	.....
Elementary Algebra (2).....	5	5	5	.....	.....	.....	17	19	15
Plane Geometry (3, 3a).....	5	5	.....	.....	.....	.....	17	18	.....
Solid Geometry (13).....	.....	5	.....	.....	.....	.....	.....	31	.....
Plane Trigonometry (14).....	55	.....	5	.....	.....	.....	237	.....	38
Analyt'l & Spherical Trigonometry (15).....	.....	22	.....	.....	.....	.....	.....	225	.....
College Algebra (16).....	.....	33	.....	.....	.....	.....	.....	225	.....
Plane Analytics (17).....	.....	.....	45	.....	.....	.....	.....	.....	170
Space Analytics (18).....	20	.....	.....	.....	.....	.....	97	.....	.....
Differential Calculus (19).....	.....	20	.....	.....	.....	.....	.....	89	.....
Integral Calculus (20).....	.....	.....	20	.....	.....	.....	.....	.....	78
Differential Equations (11).....	1	.....	.....	.....	.....	.....	22	.....	.....
Least Squares (8).....	2	.....	.....	.....	.....	.....	11	.....	.....
*MATHEMATICS.									
College Algebra (67).....	21	.....	.....	.....	.....	.....	126	.....	.....
Problems on all Past Work (65, 66) ..	1	1	1	.....	.....	.....	8	8	7
Advanced Mathematics (63, 64).....	3	3	.....	.....	.....	.....	11	12	.....
Trigonometry (68) .....	.....	21	18	.....	.....	.....	108	108	.....
Special .....	4	3	7	.....	.....	.....	.....	2	6
MECHANICAL ENGINEERING.									
Mechanism (3) .....	.....	5	.....	.....	.....	4	.....	30	16
Analytical Mechanics (6).....	15	15	.....	.....	.....	.....	73	66	.....
Strength of materials (7).....	.....	.....	15	.....	.....	.....	.....	.....	63
Thermodynamics (34) .....	5	.....	.....	.....	.....	.....	7	.....	.....
Prime Movers (9).....	.....	5	.....	.....	.....	.....	.....	19	.....
Machinery and Mill Work (10).....	.....	.....	5	.....	.....	.....	.....	.....	19

\* Semester work.

TABLE I — THE WORK OF INSTRUCTORS, 1900-1901 — Continued.

Subjects.	Hours per week.						Number of Students.		
	Lectures.			Laboratory.					
	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.
MECHANICAL ENGINEERING.									
—Concluded.									
Experimental Laboratory (12, 13, 14, 15, 16, 17, 30).....		1		8	22	6	19	21	6
Machine Design (18, 19).....	5	5				10	8	7	6
Hydraulic Machinery (31).....		5	3					20	7
Timber and Masonry (22).....									
Experim't'l Eng'ring Lab't'y (27, 25).....				10		10	7		16
Experimental Eng'ring Laboratory (28).....						4			2
Materials of Construction (23).....	5						8		
Power Plants (32).....			5						33
Graduate Work.....	4	4		10	10	6	4	3	1
Care of Boiler and Engine (26).....		1						50	
Theses (21).....				9	7½	10	7	6	6
Steam Engine Boilers (33).....	5						13		
METALLURGY AND MINERALOGY.									
Metallurgy (4).....	5	5					41	37	
Metallurgical Laboratory (5).....	2	1	1	20	21	21	17	11	14
Ore Dressing (8).....	2						4		
Assaying (6).....		1		14			16		
Mineral Chemistry (9).....			5						3
Mineralogy (2).....			3						79
Determinative Mineralogy (3).....			1			12			11
Thesis and Similar Work.....						2			3
MILITARY TACTICS AND SCIENCE.									
Military Drill.....							400	400	315
Tactics.....		2						60	
MINE ENGINEERING.									
Mine Surveying (1).....	5			9			3		
Ventilation and Haulage (2).....		5			2			5	
Mine Engineering (5).....	5	5	5		2		3	3	2
Mine Operating (3).....			5			3			3
Mine Surveying (4).....	4			9			13		
Thesis Work and Special.....						9			4
Metallurgical Construction (7).....		2			3			4	



TABLE I—THE WORK OF INSTRUCTORS, 1900-1901—Continued.

Subjects.	Hours per week.						Number of Students.		
	Lectures.			Laboratory.					
	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.
PHARMACY.									
Materia Medica (12) (13) (18).....	5	5	2	.....	.....	6	8	9	11
Pharmacy (6) (7).....	3	2	.....	.....	10	.....	16	15	.....
Dispensatories (8) .....	.....	.....	2	.....	.....	10	.....	.....	15
Pharmaceutical Chemistry (9).....	2	.....	.....	10	.....	.....	9	.....	.....
Extemporaneous Chemistry (10).....	.....	2	.....	.....	10	.....	.....	7	.....
Lectures and Dispensing Practice (11).....	.....	.....	2	.....	.....	10	.....	.....	7
Materia Medica (13).....	3	3	.....	.....	.....	.....	11	11	.....
Materia Medica and Therapeutics (14).....	.....	.....	3	.....	.....	.....	.....	.....	7
Pharmaceutical Assaying (15).....	2	.....	.....	10	.....	.....	1	.....	.....
Methods of Manufacture (16).....	.....	2	.....	.....	10	10	.....	4	.....
Pharmacy (18) (Vet. Students).....	.....	.....	5	.....	.....	.....	.....	.....	4
Special .....	2	.....	.....	.....	10	8	1	1	1
Quiz .....	.....	2	2	.....	.....	.....	.....	10	10
General Pharmacy (17).....	.....	.....	2	.....	.....	10	.....	.....	1
*PHILOSOPHY.									
Psychology (51) .....	8	.....	.....	.....	.....	.....	34	.....	.....
Psychology (53) .....	6	.....	.....	.....	.....	.....	38	.....	.....
Logic and Ethics (52).....	.....	8	.....	.....	.....	.....	.....	36	.....
Logic (54).....	.....	6	.....	.....	.....	.....	.....	33	.....
History of Modern Philosophy (56).....	.....	3	.....	.....	.....	.....	.....	25	.....
His. of Ancient and Medieval Phil. (57).....	3	.....	.....	.....	.....	.....	5	.....	.....
Advanced Work (59) (60) .....	2	2	.....	.....	.....	.....	7	4	.....
Physiology and Exp. Psychology (61).....	.....	.....	.....	2	.....	.....	4	.....	.....
Study of Religion (63) (64).....	2	2	.....	.....	.....	.....	7	.....	.....
Special .....	1	2	.....	.....	.....	.....	2	4	.....
Ethics (55).....	3	.....	.....	.....	.....	.....	26	.....	.....
Thesis .....	.....	.....	.....	.....	2	.....	.....	4	.....
PHYSICAL EDUCATION.									
Young men .....	.....	.....	.....	44	44	.....	384	384	.....
Young Women .....	.....	.....	.....	16	16	16	112	112	112
PHYSICS.									
Elementary Physics (1).....	10	10	.....	.....	.....	.....	83	66	.....
Mechanics and Heat (2) (51) (52).....	3	12	12	.....	.....	.....	117	90	81
Problems (3) .....	2	2	2	.....	.....	.....	26	17	16
Electricity and Magnetism (4).....	3	.....	.....	.....	.....	.....	13	45	39
Physical Laboratory .....	.....	.....	.....	18	13	23	13	4	3
Mechanics Sound and Heat (11).....	1	1	1	4	.....	4	4	4	3
Electricity and Magnetism.....	.....	.....	.....	.....	4	.....	.....	.....	.....

\* Semester work.

TABLE I—THE WORK OF INSTRUCTORS, 1900-1901 — Continued.

Subjects.	Hours per week.						Number of Students.		
	Lectures.			Laboratory.					
	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.
*RHETORIC AND ENGLISH LANGUAGE.									
Paragraph Writing (51) (5).....	27	.....	.....	40	.....	.....	444	.....	.....
Practical Rhetoric (5) (52).....	.....	21	.....	.....	14	.....	.....	351	.....
Analysis of Prose (53) (54).....	4	8	.....	.....	6	4	.....	45	57
Advanced Rhetoric (3) (63) (64)....	.....	4	4	.....	6	2	82	62	.....
Rapid Writing (55, 56).....	1	1	.....	2	2	.....	27	27	.....
Brief Making and Argument (57).....	3	.....	.....	3	.....	.....	14	.....	.....
Short Stories (60).....	.....	2	.....	.....	2	.....	.....	24	.....
Poetics (59).....	2	.....	.....	.....	.....	.....	15	.....	.....
Studies in Exposition (58).....	.....	3	.....	.....	.....	.....	.....	11	.....
Rhetorical Theory & Criticism (61, 62)...	2	2	.....	4	.....	.....	12	10	.....
Teachers' Course (67, 68).....	2	2	.....	.....	.....	.....	30	25	.....
History of the English Language (69)...	2	.....	.....	.....	.....	.....	53	.....	.....
Old English (71, 72).....	2	2	.....	.....	.....	.....	21	18	.....
Middle English Philology (73).....	2	.....	.....	.....	.....	.....	2	.....	.....
Historical English Grammar (74).....	.....	2	.....	.....	.....	.....	.....	2	.....
Development of Prose (70).....	.....	2	.....	.....	.....	.....	.....	32	.....
Extempore Speaking (75, 76).....	2	2	.....	.....	.....	.....	6	11	.....
ROMANCE LANGUAGES.									
FRENCH.									
Elementary French (1, 51).....	16	.....	.....	.....	.....	.....	187	.....	.....
Modern Prose and Plays (1, 52).....	.....	16	.....	.....	.....	.....	.....	145	.....
Modern French Literature (55, 56, 2)...	8	8	.....	.....	.....	.....	73	66	.....
Recent French Prose Writers (58).....	.....	3	.....	.....	.....	.....	.....	23	.....
Advanced Prose Composition (59, 60)...	1	1	.....	.....	.....	.....	23	17	.....
French Comedy (57).....	3	.....	.....	.....	.....	.....	23	.....	.....
French Tragedy (61).....	3	2	.....	2	.....	.....	10	.....	.....
Literary Criticism in France (65).....	2	.....	.....	.....	.....	.....	19	.....	.....
Precursors of Romantic Movement (62)...	.....	3	.....	.....	2	.....	.....	9	.....
Travel Writers (66).....	.....	2	.....	.....	.....	.....	.....	14	.....
Italian (66).....	.....	2	.....	.....	.....	.....	.....	14	.....
Grammar and Readings (51, 52).....	2	2	.....	.....	.....	.....	12	9	.....
VETERINARY MEDICINE.									
Anatomy (28).....	5	.....	.....	.....	.....	.....	26	.....	.....
General Pathology (29).....	.....	4	.....	.....	2	.....	.....	28	.....
Special Pathology (30).....	.....	.....	4	.....	.....	2	.....	.....	26
General Surgery (24).....	3	.....	.....	2	.....	.....	8	.....	.....
Clinic (19).....	.....	.....	.....	12	12	12	10	10	11
Special Pathology (20, 21).....	3	3	3	.....	.....	.....	4	11	11
General Therapeutics (22).....	.....	.....	3	.....	.....	.....	.....	.....	4

Semester work.

TABLE I—THE WORK OF INSTRUCTORS, 1900-1901 — Concluded.

Subjects.	Hours per week.						Number of Students.		
	Lectures.			Laboratory.					
	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.
VETERINARY MEDICINE — Concluded.									
Lectures and General Pathology (14)....	4	.....	.....	2	.....	.....	6	.....	.....
Osteology (11).....	5	.....	.....	5	.....	.....	14	.....	.....
Meat Inspection (27).....	.....	4	.....	.....	.....	.....	.....	5	.....
Special Pathology (15, 16).....	.....	3	3	.....	.....	.....	.....	11	11
Diseases of the Cow (17).....	.....	3	.....	.....	.....	.....	.....	48	.....
Surgical Diseases and Operations (18).....	3	3	3	2	.....	.....	4	9	9
Myology (12).....	.....	5	.....	.....	10	.....	.....	12	.....
Neurology (13).....	.....	.....	5	.....	.....	10	.....	.....	12
Principles of Horse-shoeing (26).....	3	.....	.....	.....	.....	.....	7	.....	.....
Obstetrics (23).....	.....	6	.....	.....	.....	.....	.....	6	.....
Canine Disease (31) (32).....	3	.....	3	.....	.....	.....	3	.....	5
Ophthalmology (33).....	.....	.....	2	.....	.....	.....	.....	.....	7
Practice in Operating (25).....	.....	.....	.....	.....	6	.....	.....	5	.....
Pathology Laboratory (34).....	2	1	1	.....	6	6	.....	6	6
ZOOLOGY.									
Comparative Zoology (1, 51, 52).....	4	5	4	8	8	8	39	72	65
Com. Anatomy of Vertebrates (53, 55) ..	.....	1	.....	.....	8	.....	7	.....	.....
Com. Anatomy of Vertebrates (54, 56) ..	.....	1	.....	.....	8	.....	.....	5	.....
Zoology and Anatomy (58, 60).....	.....	1	.....	.....	8	.....	.....	5	.....
Economic Entomology (4).....	1	1	.....	4	6	6	15	17	17
Systematic and Practical Entomology (7)	.....	.....	3	.....	.....	.....	.....	.....	4
Comparative Zoology (64).....	.....	2	.....	.....	4	.....	.....	23	.....
Zoology (57).....	.....	1	.....	.....	8	.....	.....	5	.....
Zoology (65).....	.....	.....	.....	.....	.....	10	1	.....	1
Thesis .....	.....	.....	.....	2	4	4	1	1	1
Helminthology (8).....	1	.....	.....	.....	.....	.....	10	.....	.....

TABLE II—SHOWING THE WHOLE NUMBER OF DEGREES IN COURSE  
CONFERRED SINCE THE FOUNDING OF THE UNIVERSITY.

	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.
Bachelor of arts.....	1	1	6	2	2	1	5	4	6	8	6	1	7	2	6	9	12	19	13	17	18	8	14	16
Bachelor of philosophy.....				2		2	2	1	1	2	6	7	4	8	8	5	5	19	26	27	27	31	38	37
Bachelor of science.....	5	5	1	2	5	3	2	4	2	4	4	8	2	10	7	11	7	9	4	10	10	2	7	11
Bachelor of science in agr.....								1	1				2	3	3			2	4	4	5	5	7	6
Bachelor of science in chem.....																						1	1	7
Bachelor of sci. in D. Sci.....																							1	6
Bachelor of science in H., F.....															1	3	1	1	1	1	2	1	1	....
Bachelor of science, I.Arts.....																				1	1			....
Bachelor of science in phar.....																							1	1
Civil engineer.....						1	1	1	3	3	4	1	2	2	7	9	7	9	11	4	8	7	3	10
Mechanical engineer.....			1		2	4	1	3	1	2	4	2	3	2	5	2	1	2	4	9	5	6	9	6
Electrical engineer.....															4	9	8	15	17	13	10	7	11	4
Engineer of mines.....			1	1			1	2	4	1	4	2			1	1	4	1	6	3	2	3	3	2
Engineer of mines, in ceram's.....																							1	....
Graduate in pharmacy.....										3		2	3	6	5	5	3	11	12	11	7			....
Master of pharmacy.....																			1			1		....
Doctor of veter'y medicine.....										1		1	4		4	5		4	2	3			4	4
Master of arts.....											1	1	1	2				2		4	4	3	8	6
Master of science.....				1							1	1	2	2		2			3	3	2	3	3	2
Master of agriculture.....																	1	2			1			....
Master of science in H. & F.....																			1	1	1			....
Doctor of philosophy.....		1														1								....
Doctor of science.....												1					1			1				....
Bachelor of laws.....															9	18	15	16	6	23	22	21	25	17
Master of laws.....															2	4	2		6					....
Totals .....	6	7	9	8	9	11	12	16	18	24	28	26	30	36	65	79	70	112	118	135	126	99	137	135



## REPORT OF THE LIBRARIAN.

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DR. W. O. THOMPSON, *President Ohio State University*:

DEAR SIR — The following report on the condition of the University Library is herewith respectfully submitted:

### BUILDING AND EQUIPMENT.

The only change in the housing of the university library during the last year has been the transfer of the law library from the crowded quarters on the first floor of university hall to a large, sunny room, in the basement of the same building. This room occupies the entire east end of the building, having windows on the north, east and south sides. It was thoroughly repaired, having new floor, ceiling, and wainscoting, being freshly painted and newly lighted. The equipment has been of the most simple kind, because it was not thought wise to put much money into temporary furniture, but it has served its purpose, and the whole room will continue to provide adequately for the law library until the new building is finished.

Plans looking towards a new building for the library have not been ignored during the year. In November the librarian attended the dedication of the new building of the Wisconsin state historical society at Madison. This building is one of the most beautiful of the library buildings of our country. It was erected and equipped at the cost of approximately \$550,000. Although we may not consider it necessary to wait until such an elaborate building can be erected, the fact that other states are finding it desirable to provide homes of elegance for their libraries certainly ought to have some influence on what Ohio does. The fact that Wisconsin has placed this building on the campus of the university while leaving its law library and its library commission in the capitol building may also be a suggestion for our own action.

### BOOKS

The number of books recorded on the accession book of the library June 30, 1901, is 40,580. The records show that 5,149 have been added during the last year. Comment on these small numbers is scarcely necessary.

As has been noted in previous reports, the university is to be congratulated on so nearly completing its set of U. S. congressional documents. Through the continual efforts of Capt. Alexis Cope, secretary

of the board of trustees, we have secured a large number this year. Some have also been purchased through special appropriation of the board of trustees. Besides these, we have been able to secure a number through exchange with other libraries. Some very valuable ones were included in a gift from Mr. Kenneth D. Wood, of this city.

A gift which needs special mention is that of Mr. Joseph H. Outhwaite. Early in the year Mr. Outhwaite signified his wish to send a collection of government documents, specially bound, to form an Outhwaite alcove in the library, and the gift was accepted by the board of trustees. When the books came to the university they were found to contain a beautifully bound set of the official records of the war of the rebellion, together with a set of the official records of the navy. Nothing could form a better foundation for a collection of works on the rebellion and acting upon a suggestion from the university, Mr. Outhwaite decided to abandon the idea of an alcove and in its place to form a collection of books on the civil war. These books are waiting until Mr. Outhwaite's return from Europe before being finally entered and placed on the shelves.

Other gifts have come to the university, for which grateful acknowledgment has been made to the donors.

#### EXCHANGES.

A valuable exchange has been made this year with Oberlin college. In return for some fifteen sheep-bound congressional documents, which we had in duplicate, we have received 53 bound volumes and 56 pamphlets, all United States documents. We of course hold ourselves in readiness to send to Oberlin additional volumes as soon as we know that we have anything in duplicate that they are needing. Some valuable exchanges have also been made in the experiment station bulletins, the latest being an exchange with the Lloyd library of Cincinnati. Such instances show the value of a duplicate collection.

#### USE.

That there is a steady increase in the use of the library is shown by the fact that the average daily attendance last year for the six months, November to April, was 421, for this year it is 514. This being for the general and law libraries, combined.

The plan of placing "reserved books" on special shelves has been continued this year and the use of the shelves has greatly increased. Blanks were prepared by the library at the beginning of the year and sent to the professors who were accustomed to require outside reading of their classes. On the return to the library of one of these blanks, signed by the professor and filled in with the titles of books required for class work, the books noted were at once placed on the reserved shelves.

These shelves are in charge of student assistants, who do not leave the shelves for work in any other part of the room, so that someone is always present to supply the students with the books wanted. A card is made out for each book and when that book is in use the name of the student using it is written on the card, so that it can always be told who is using a given book at any time, and also what students have used a particular book.

This seems to be the best solution of the vexing problem of how to make a small number of books serve a large number of people. To make it really work well requires the co-operation of both professor and library. If the professors do not send the lists the library can not reserve the books, and much inconvenience to all concerned is the result.

#### STAFF.

As the library has grown, the necessity of specialization among members of the library staff along different lines of work has been felt, and gradually the work is being thoroughly organized into departments. The acquisition department is now organized and the reference department has also been well worked out. The staff is not yet large enough to admit of satisfactory organization of the catalogue department. There has been no change during the year in the personnel of the library staff.

Attention is again called to the great necessity of establishing in the university a school of library science. Such schools are being established in other colleges and it is not well for the university to be behind in this work.

Attached to this report is a history prepared for a publication entitled Sketches of Ohio Libraries, to be issued by the Ohio library commission.



## APPENDIX I.

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### HISTORY OF THE OHIO STATE UNIVERSITY LIBRARY.

The growth of the university library has of late years kept pace approximately with the expansion of the institution as a whole; but for a long time it was slow — almost imperceptible. Its history falls naturally into three periods, suggested by the three locations in which the collection of books has been kept. These are:

1. Room on first floor, University Hall, 1873-1884.
2. Rooms on third floor, University Hall, 1884-1893.
3. Rooms in Orton Hall, east side, 1893-

Besides these, it is interesting to note that there was a sort of pre-historic period, the first proffer of books (or money to buy books) having come from Mr. John G. Deshler, of Columbus, on April 23, 1872, more than a year before the college was opened for instruction. The first purchases seem to have been a collection of entomological works from the library of the late Mr. Fay, of Columbus, and a set of reports on the natural history of New York. These were supplemented somewhat later by donations of books from Hon. H. C. Noble and Mr. W. S. Sullivant, the eminent botanist. With these and a few books contributed by individuals in and out of the college, the students and professors were forced to be — not content, but resigned to a policy of “requests” and waiting. The little assemblage of volumes were stored behind glass doors in walnut cases in room 1 of University Hall, and placed in charge of the professor of English and modern languages, Joseph Millikin, of gracious memory. Students had access to the shelves under simple regulations; and on certain days the library was open for the withdrawal of books. In 1876, Professor J. R. Smith, of the department of ancient languages, became the librarian, and held the position until 1881, when he was succeeded by Professor S. C. Derby, of the department of Latin, during whose incumbency the library outgrew its quarters, and entered upon the second stage of its growth, being removed to the third floor of University Hall in the summer of 1884.

The annual reports of those early years vividly suggest the precarious condition of the infant library, in the absence of a regular appropriation; a condition shared, of course, with the institution as a whole, but recognized and deplored by the president and most of the faculty. In 1874, Hon Joseph Sullivan, secretary of the board of trustees, urged an appropriation for books; and repeated the recommendation in several succeeding reports. The same note was struck with varying



degrees of emphasis by Presidents, Orton, W. Q. Scott and W. H. Scott; and by Librarians Millikin, Smith and Derby.

President Orton (8th annual report) says, "I trust that the needs of the library will not be overlooked," and makes another plea for an appropriation in his 9th annual report (1879).

President W. Q. Scott, in his two annual reports of 1881 and 1882 calls attention to the requests from all sides for books for the library as "reasonable."

President W. H. Scott (annual report, 1883) complains of contracted space: "no room on the shelves for the books, nor on the floor for the students who come in to consult them;" and yet "the cry for more books comes from every direction."

These requests had been heeded by the board of trustees; and appropriations, probably as liberal as circumstances warranted, were made from year to year, ranging from \$200 to \$600. In 1883, Librarian Derby made a very strong report on the condition and needs of the library, the result of which was that in June, 1884, a committee was appointed to estimate the cost of cases, shelving and furniture, and of the removal of the books; and to suggest a proper sum to be appropriated. In pursuance of the recommendations of this committee, the library was transferred, during the summer of 1884, to rooms at the east end of the third floor of University Hall; and an appropriation of \$5,000 was asked and received from the legislature. Of this sum, \$600 was applied to the expenses of removal. The number of volumes on the catalogue list at the time of removal was about 3,000. This may be regarded as the end of the first period of the library's development.

The plans for equipping the rooms upon the third floor of University Hall for the reception of the library were put into practical shape by the mechanical skill and efficiency of Messrs. S. P. Watt and Frank A. Ray, both of whom afterwards became graduates of the university. Upon the installation of the books in their new quarters, a card catalogue was planned, and its execution at once begun. Of the \$4,400 left from the library appropriation, nine-twentieths were expended in the purchase of books of reference and books of general interest, eleven-twentieths were divided among the various departments, the several professors selecting the books for their departments. The general books and works of reference were selected by the president and librarian. Department libraries were recognized and books were assigned to some of them. In 1885-86 the work of the card catalogue was continued. More attention was given to the completion of sets of periodicals. The president showed great interest in the growth and efficient working of the library, whose interests he never failed to promote during his administration, 1883-1895.

During 1885-86 and the following year important additions were made to the list of periodicals and the more valuable of them were

bound and added to the library, whose value was considerably increased also by purchases of works in American history, and by the acquisition of a complete set of the transactions of the Amer. soc. of civil engineers. During 1887-88 more sets of periodicals were completed and congressional documents procured sufficient to include a continuous record of the proceedings of congress from 1789 to 1887.

The reading room of the library was extensively used as a place of study by students between recitations, somewhat to the detriment of its use as a library. This source of embarrassment continued as long as the library remained in University Hall.

The most important event in the history of the library for 1888-89 was the creation of a library council to have general control of the library. The year was marked also, by the loss of at least 430 volumes through the burning of the chemical laboratory, February 12, 1889. One hundred periodicals were regularly received at this time and fifty of them were bound and added to the library. Through the generosity of the German library association, 337 volumes important for the study of the German language and literature were presented to the university. In the following year the books destroyed by the burning of the chemical laboratory were replaced. The need of more room and of a fire-proof building for the storing of the library was strongly urged by the library council. No great change in the number of periodicals or in the policy of completing sets of them was made for several years.

In 1890-91, by the efforts of the members of the class of 1887, a number of valuable works were presented to the university as the basis of a Shakespeare collection. Otherwise, there was nothing noteworthy in the steady progress of the library and its improving administration, which had during the year 1892-93 the services of Professor J. R. Smith as librarian in chief, Professor Derby being absent for the year. With the removal of the library to its new and more commodious quarters in Orton Hall ends the second period of its existence, and then begins its third period and an era of larger and more useful life.

The east side of Orton Hall had been designed by the architect with a view to housing the library for a number of years. It consisted of two large rooms 70 x 40 feet and three smaller rooms. The large room on the main floor was 30 feet high and the north end was designed to accommodate a three-story stack, the floor of this part of the room being of double strength. A large and very handsome oak screen separated the stack portion of the room from the reading room portion. Of the small rooms, two were on the first or basement floor and were designed for work rooms, but not being easy of access and one being perfectly dark except when lighted artificially, it was necessary to abandon all thought of using them as work rooms and to give them up to storage

entirely. The small room on the main floor opening out of the main library room was the librarian's office.

In designing the equipment of these rooms for the reception of the library, it was decided to put in only one story of stack at first, since that would shelve the books the library then possessed and give some room for growth. This stack was purchased from the Library Bureau, being one of the first stacks erected by that firm. It is still in use, although it would now be scarcely recognized as an L. B. stack, so different is it from the one now on the market. Tables, desks and chairs were also purchased from the Library Bureau, together with some special furniture, such as periodical and atlas cases.

It was understood that the building would be ready for occupancy during the summer, and the books had all been cleaned and were ready to move in August, but owing to the delay of the contractor in completing the building, they could not be put in place till November. It was thought best by the library council not to have the shelves open to all the students, and seniors only were granted the privilege of coming freely "behind the counter." During the first few years very little use was made of the large room on the first floor below the main room, and in 1894 the north end was partitioned off from the rest and until 1899 was used as a recitation room by the college of law.

In 1896 the question of enlarging the stack arose. More shelf space was needed. But more reading room space was also needed, and it was finally decided that an addition to the stack would not meet all the requirements. About this time the Hon. Silas J. Williams, a senator from the Stark county district, visited the library and suggested that a gallery be built around the room in order to increase the shelf and reading room space. Such suggestion met with such favor that in June, 1896, the board of trustees decided to build such a gallery, and it was to be put in place during the summer. Again, owing to the failure of the contractor to do the work within the specified time, the library was in great confusion during the fall term. By Christmas time, however, everything was in order again. The balcony has proved a pleasing addition to the main room, and also made possible the free access to the shelves by all the students. In providing cases for the balcony no attempt was made to put in elegant ones, simple oak cases of a special design being built in Columbus and having served a temporary purpose very well.

As the library has grown, new furniture has been added from time to time, and a considerable shifting of cases has been necessary. In 1899 the partition dividing the large room on the first floor was removed and the entire room given back to library uses. It has been used especially for shelving documents — national, state and municipal. Rooms for ad-



ministration have had to be improvised and changed from time to time by arranging cases to screen the workers from interruption.

During the eight years the library has occupied the rooms, they have proved in the main pleasant and convenient. But the time has come when they are too small to serve the most ordinary uses of the library. It was in the 1897 report of the librarian that the pressing need of a library building was first urged. Since then it has been mentioned repeatedly in both president's and librarian's reports.

Up to June, 1893, the library had not been considered a separate department of the university, but was attached to some other department. Necessarily, it was a secondary consideration with the professor in charge, whose first interest was, of course, centered in his teaching. It was fortunate for the library, however, that it fell into the hands of such men as Professor J. R. Smith and Professor S. C. Derby. Book lovers themselves, and with clear ideas of the whole range of literature, they established the book collection on a firm basis and did much to give that high character to the university library of which we are justly proud. But librarianship is a profession in itself, and to ask one man to be both librarian and professor of a subject other than bibliography was found to be laying too heavy a burden upon him. Accordingly, at the time of the removal to new quarters in Orton Hall, the library was made a distinct department in charge of a librarian, Miss Olive Jones, who was a member of the general faculty.

At the time of the removal the accession record showed that there were 12,721 books in the library. On June 30, 1901, the record is 40,580, showing an increase during the last eight years of 27,859. As these figures show, the growth during this time has been a strong, healthy one, but by no means has it been as rapid as the needs of the university demand. Most of the increase has come from purchases made with money regularly appropriated by the board of trustees. These annual appropriations have gradually increased in size until \$5,000 for books, periodicals and binding is now looked upon as the least that can be given for one year, and the faculty has made an earnest request that the sum be enlarged as much and as rapidly as possible.

A large number of volumes have come from the United States government. The university library is not a depository for United States documents. In designating such depositories the university has been passed by and now Ohio has her full quota. Many of the cloth-bound volumes came to the library, but the set of sheep-bound documents, which contain valuable committee reports not to be obtained in any other way, was not on our shelves. In March, 1899, Professor George W. Knight addressed a letter to Capt. Alexis Cope, secretary of the board of trustees, calling his attention to the great loss the library was sustaining in not possessing these books, and suggesting that something might be accomplished through President McKinley.



Secretary Cope at once wrote a strong letter to the president, stating that the university was not obtaining from the government the gifts to which it ought to be entitled, and asking that if possible something be done to change the existing condition of affairs. President McKinley, who still retained a warm interest in the university, gave the matter his immediate attention, with the result that about half of the sheep-bound documents were sent to us from Washington. Additions to the set have been made since, so that it is now nearly complete.

Gifts have also come to the library through the efforts of the university library association. This is an organization the object of which is "to work for the welfare of the Ohio state university by augmenting the university library," and from it the library expects to derive much benefit. Mr. Paul Jones, wisely feeling that the library was the point on which outside effort for the advancement of the university could best be centered, was the originator of the organization and is its president. The association is composed of those specially interested in the university and naturally contains many alumni. Some of the volumes added through the efforts of the association are rare old volumes, a number presented by Mr. Hylas Sabine having come from the library of Daniel Webster and containing his autograph. Special mention should be made of the books presented by Mr. George T. Spahr from his father's library in response to the request of Mr. Jones, acting for the association. The alumni have shown an interest in the library, as is shown by the appropriation by the alumni association of money to issue circulars calling attention to the many needs of the library.

Special mention should also be made of a gift relating to the history of the Quakers in America. Through the interest and active effort of Mr. J. J. Janney, of this city, the Miami quarterly meeting of the society of friends in Ohio donated a collection of books illustrative of the influence of the Quakers in American history, and especially during the colonial period. When completed the collection will have cost \$150, and will be of the highest service, as it touches a field of American history in which our library was seriously defective. In addition, Philadelphia yearly meetings of both branches of the society of friends have donated a considerable number of volumes of historic and doctrinal character, thus supplementing the gift of the Miami quarterly meeting.

A very notable gift was that of Mr. William Siebert, who bequeathed the majority of the books in his library to the university. These books were to form the basis of a "Siebert Library of German History," which is now being increased by his brothers, Mr. John Siebert and Mr. Louis Siebert. Over \$400 worth of books have been already added, and it is understood that additions are to be made annually. As the title indicates, the library is composed of works on the history of Germany and the Germanic states. Aside from general histories, the library con-

tains a large number of books on local history and topography, many of which are extremely rare and valuable.

Another notable gift has come from Mr. Joseph H. Outhwaite. Early in 1901, Mr. Outhwaite signified his wish to send a collection of government documents, specially bound, to form an Outhwaite alcove in the library, and the gift was accepted by the board of trustees. When the books came to the university they were found to contain a beautifully bound set of the official records of the war of the rebellion, together with a set of the official records of the navy. Nothing could form a better foundation for a collection of works on the civil war, and acting upon a suggestion from the university, Mr. Outhwaite abandoned the idea of an alcove and in its place decided to form a library of books on the rebellion.

In 1894 the library of the college of law was brought from the court house where it had been kept, and was incorporated with the university library. Up to that time the collection had consisted almost entirely of the books which had belonged to the late Hon. Henry C. Noble and had been given to the college of law by Mrs. Noble; but just before they were brought to the university, Mr. Emerson McMillin very generously gave \$3,000 for the purchase of law books. These two gifts, approximating 3,000 volumes, formed the nucleus of the law library. Since that time the books of the late Mr. L. J. Critchfield have been presented to the university, and the supreme court of Ohio has been very generous in giving and keeping up four sets of Ohio state reports. These gifts, taken in connection with the purchases made with money appropriated by the board of trustees, form a very good working library in law.

The use of the library has greatly increased during this period, and with the increased facilities that will come when a building specially designed to fit library needs has been placed on the campus we may hope that the library will become what it ought to be, the center of university life.

NOTE — The history of the first period of the library's development was written by Professor J. R. Smith, that of the second by Professor S. C. Derby, and that of the third by Miss Olive Jones.



## REPORT OF THE TREASURER.

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COLUMBUS, OHIO. *June 30, 1901.*

*To the HONORABLE J. McLAIN SMITH, President Board of Trustees of the Ohio State University:*

SIR:—I hand you herewith my annual report for the fiscal year ending June 30, 1901, accompanied by July receipted vouchers for all disbursements.

Very Respectfully,

I. F. KIESEWETTER, *Treasurer.*



## STATEMENT I.

DETAILED STATEMENT OF RECEIPTS BY L. F. KIESEWETTER TREASURER,  
DURING FISCAL YEAR ENDING JUNE 30, 1901.

Date	From whom received	For what purpose	Amount	Total
1900				
July 1	Balance on hand.....			\$7,126 46
July 11	United States.....	Appropriation, act of congress of Aug. 30, 1890...	\$25,000 00	
	Alice Greene Latham...	Two deeds, act of March 14, 1899.	4 00	25,004 00
Sept. 22	Alexis Cope, Sec.....	Sale of old paper..	7 50	
	John Cutright .....	Sale of small tract of land in Ross county .....	22 00	
	Herbert Osborn .....	Fees, lake laboratory .....	135 00	
	Mary Bole Scott .....	Electric lights ....	21 00	185 50
26	Auditor of State.....	Requisition No. 36 O. S. U. fund ...	15,287 49	
	Geo. W. Wakefield ....	Balance of law tuition .....	5 00	
	E. E. Harrold .....	Sale of store room cards .....	1,000 00	16,292 49
Oct. 3	Emerson McMillin ....	Fellowship .....	287 50	
	B. F. Thomas.....	Rent .....	170 00	
	E. E. Harrold.....	Sale of store room cards .....	500 00	957 50
24	Commrs Sinking Fund.	Interest on endowment .....	10,000 00	
	Alexis Cope, Bursar...	Students fees .....	8,000 00	
	Natl Brick Mfgs. Assn..	Scholarship, dept. of ceramics ....	250 00	
	Edward Orton .....	Power and freight cartage .....	4 84	
	Re-New Lamp Co.....	Credit on account.	1 41	18,256 25
Nov. 3	Auditor of State.....	Requisition No. 37, O. S. U. fund ..	16,244 99	
	Wm. T. Magruder.....	Labor and coal ...	57 00	
	S. W. Robinson .....	Pipe and elbow for boiler .....	156 00	
	Geo. B. Kauffman.....	Rent .....	180 00	
	E. E. Harrold .....	Sale of store room cards .....	400 00	17,037 99
22	Auditor of State .....	Requisition No. 38, O. S. U. fund ..	32,800 00	
	Auditor of State.....	Requisition No. 39, O. S. U. fund ..	15,934 99	48,734 99
Dec. 1	W. J. Hayes & Sons....	Sale of refunding bonds .....		32,550 00
4	Alexis Cope, Bursar...	Students fees ....	7,000 00	
	Commrs Sinking Fund	Interest on endowment .....	3,750 00	10,750 00
14	W. E. Severn .....	Fees from veterinary hospital ....	210 75	
	B. F. Thomas .....	Rents .....	127 50	338 25
31	Commrs Sinking Fund.	Interest on endowment .....	2,871 24	
	B. F. Thomas .....	Rent installment ..	42 50	
	E. E. Harrold.....	Store room cards..	100 00	3,013 74

## STATEMENT I — Continued.

Date	From whom received	For what purpose	Amount	Total
1901.				
Jan. 24	Auditor of State.....	Requisition No. 40, O. S. U. fund...		\$15,168 82
Feb. 7	Commrs Sinking Fund.	Interest on endow- ment .....	\$3,000 00	
	Alexis Cope, Bursar...	Students fees .....	6,000 00	
	H. C. Lord.....	Rent .....	120 00	9,120 00
21	Auditor of State.....	Requisition No. 41, O. S. U. fund ..		16,247 15
March 6	Commrs Sinking Fund.	Interest on endow- ment .....	2,750 00	
	Alexis Cope, Bursar...	Students fees .....	5,000 00	
	Edward Orton.....	Use of lab. material	10 00	
	E. A. Eggers.....	Ground rent .....	37 50	
	B. F. Thomas.....	Rent .....	85 00	
	Frank Ruhlen .....	Dormitory fees ...	7 50	
	E. E. Harrold .....	Store room cards ..	500 00	
	W. E. Severn.....	Veterinary clinic ..	217 45	8,607 45
25	Auditor of State.....	Requisition No. 42 O. S. U. fund ..	16,118 82	
	John F. Prather.....	Deed Va. military lands .....	2 00	
	Margaret Thompson ...	Deed Va. military lands .....	2 00	
	Henry Gray, et al.....	Deed Va. military lands .....	2 00	
	E. L. Mechlin.....	Deed Va. military lands .....	2 00	
	W. C. McCracken.....	Services of plumb- er .....	10 26	
	Emerson McMillin.....	Scholarship in economics .....	62 50	
	Emerson McMillin .....	Fellowship in as- tronomy .....	75 00	
	Sarah Wohlgemuth....	Deed Va. military lands .....	2 00	
	R. W. Evans.....	Deed Va. military lands .....	2 00	
	Green Porter .....	Deeds Va. military lands .....	4 00	16,282 58
April 5	Commrs Sinking Fund.	Int. on endowment	2,750 00	
	Alexis Cope, Bursar...	Students fees .....	5,000 00	
	Geo. W. Fitzpatrick...	Deed, act March 14, 1889 .....	2 00	
	William S. Woosley....	Deed, act March 14, 1889 .....	2 00	
	Charles Linke .....	Deed, act March 14, 1889 .....	2 00	
	Julius Bachlett .....	Deed, act March 14, 1889 .....	2 00	7,758 00
23	Auditor of State.....	Requisition No. 43, O. S. U. fund ..	15,947 16	
	W. E. Severn .....	Fees from veteri- nary hospital ....	124 50	
	Geo. B. Kauffman.....	Rent .....	225 00	
	E. & M. Decker.....	Deed, act March 14, 1889 .....	2 00	
	S. H. Dulin .....	Deed, act March 14, 1889 .....	2 00	

## STATEMENT I — Continued.

Date	From whom received	For what purpose	Amount	Total
1901				
April 23	M. W. George.....	Deed, act March 14, 1889 .....	\$2 00	
	Jno. A. Ewing.....	Deed, act March 14, 1889 .....	2 00	
	Andrew Dodds .....	Deed, act March 14, 1889 .....	2 00	
	Margaret Poe ....	Deed, act March 14, 1889 .....	2 00	
	J. G. McConnell .....	Deed act March 14, 1889 .....	2 00	
	Chas. W. Mesloh.....	Rent .....	108 00	\$16,418 66
May 17	Auditor of State.....	Requisition No. 44, O. S. U. fund..	15,971 82	
	Commrs Sinking Fund.	Interest on endowment fund .....	2,750 00	
	E. E. Harold .....	Store room cards..	500 00	
	B. F. Thomas.....	Rent .....	42 50	
	Hamlet Black .....	Deed, act March 14, 1889 .....	2 00	
	Thos. W. Booth.....	Deed, act March 14, 1889 .....	2 00	
	John Lowry .....	Deed, act March 14, 1889 .....	2 00	
	C. W. Gustin.....	Deed, act March 14, 1889 .....	2 00	
	Theo. Beekman .....	Deed, act March 14, 1889 .....	2 00	
	Auditor of State.....	Requisition No. 45, O. S. U. fund ..	7,237 50	
	Auditor of State.....	Requisition No. 46, O. S. U. bldg. fund .....	2,042 50	
	W. E. Severn .....	Veterinary clinics.	136 05	
	H. C. Lord.....	Rent .....	120 00	
	M. L. Klever.....	Deed, act March 14, 1889 .....	2 00	
	Dan'l Simmerman ....	Deed, act March 14, 1889 .....	2 00	
	J. B. Beekman.....	Deed, act March 14, 1889 .....	2 00	28,816 37
June 1	Col. Savgs & Trust Co.	Proceeds, sale of ref, bonds .....		10,966 50
6	C. P. Crowe.....	Pipe .....	1 80	
	E. & L. Furtwangler..	Deed, act March 14, 1889 .....	2 00	
	Henry C. Guy.....	Deed, act March 14, 1889 .....	2 00	
	Frank Welford .....	Deed, act March 14, 1889 .....	2 00	
	E. W. Buckner.....	Deed, act March 14, 1889 .....	2 00	
	Sarah E. Thompson....	Deed, act March 14, 1889 .....	2 00	
	Otilia Gotwald.....	Deed, act March 14, 1889 .....	2 00	
	Wm. King .....	Deed, act March 14, 1889 .....	2 00	
	Chas. W. Stewart.....	Deed, act March 14, 1889 .....	2 00	
	W. E. Johnson.....	Deed, act March 14, 1889 .....	2 00	

## STATEMENT I — Concluded.

Date	From whom received	For what purpose	Amount	Total
1901				
June 6	Alexis Cope, Bursar....	Students fees .....	\$2,000 00	
	Commrs Sinking Fund.	Interest on endow- ment .....	3,500 00	\$5,519 80
12	Auditor of State.....	Requisition No. 47, O. S. U. fund..		15,745 49
20	Alexis Cope, Sec.....	Diploma fees .....	700 00	
	E. E. Harrold.....	Store room cards	500 00	1,200 00
29	C. D. Laylin.....	Broken instrument	40	
	Henry H. Gilmore....	Deed, act March 14, 1889, .....	2 00	
	C. W. Mesloh.....	Rent .....	54 00	
	George Parsons .....	Armory decoration	30 50	
	O. S. Markworth.....	Broken hydrometer	2 25	
	K. D. Swartzell.....	Commencement luncheon .....	87 00	
	Geo. B. Kauffman.....	Rent .....	180 00	
	B. F. Thomas.....	Rent .....	127 50	
	Alexis Cope, Bursar...	Students fees .....	10 00	
	F. E. Sanborn.....	Sale of iron .....	8 93	
	Alexis Cope, Bursar...	Students fees .....	1,956 50	
	W. E. Severn .....	Fees, veterinary clinic .....	170 10	
	E. E. Harrold.....	Cash sales store room .....	700 00	
	Alexis Cope, Sec.....	Auditor's fees .....	27 00	
	Commrs Sinking Fund.	Int. on endow- ment .....	1,938 84	
	Commrs Sinking Fund.	Interest on W. J. Bryan prize ....	8 44	5,303 46
		Total .....		\$337,401 45



## STATEMENT II.

DETAILED STATEMENT OF DISBURSEMENTS BY L. F. KIESEWETTER, TREASURER,  
DURING FISCAL YEAR ENDING JUNE 30, 1901.

Date	To whom paid	For what purpose	No	Amount
1900.				
July 2	N. P. Oglesby.....	Bal. salary, 1899-1900	1	\$40 00
	T. E. Osborn.....	Salary, June, 1900....	2	20 00
3	T. J. Godfrey.....	Expense as trustee ....	3	6 75
	L. B. Wing.....	Expense as trustee ....	4	11 00
5	W. H. Case.....	Cleaning boilers, etc ..	5	31 50
6	Columbus Gas Co.....	Gas bill for June.....	6	89 70
	Metta L. Seymour.....	Typewriting .....	7	5 00
	Wilbert Morelan .....	Carpenter work .....	8	11 10
	Wm. T. Magruder.....	Money advanced .....	9	3 75
	J. C. Perry.....	Campus work .....	10	25 05
	F. C. McKinney.....	Guide service .....	25	20 60
	Philip Long .....	Lunches for glee club..	12	3 50
	John Brown .....	Moving lumber and tables .....	13	60
	Wm. Standley .....	Carrying lumber .....	14	53
	Thos. Boude .....	Carrying lumber .....	15	53
	C. H. Woodruff.....	Lumber, etc., .....	16	5 50
	C. P. Linhart.....	Office supplies .....	17	2 05
	Lily Weeks .....	Clerical work .....	18	8 00
	A. McMichael .....	Lettering diplomas ....	19	28 00
	Thos. E. French.....	Lettering diplomas ....	20	5 80
	J. V. Denney.....	Expenses as delegate ..	21	3 95
	J. R. Smith.....	Expenses as delegate ..	22	7 75
	Grace Eagleson .....	Clerical work .....	23	6 38
	Helen Powell .....	Clerical service .....	24	4 24
	Charles W. Schubert...	Guide service .....	25	1 00
	R. E. McIntosh.....	Wiring .....	26	8 75
	M. C. Hunter.....	Wiring .....	27	3 75
	Harry Kinnear .....	Wiring .....	28	7 87
	T. E. Osburn.....	Labor .....	29	3 00
	W. F. Lavery.....	Cleaning bones .....	30	20 00
	Clara Armstrong .....	Department labor ....	31	12 50
	W. A. Kellerman.....	Department supplies ....	32	6 04
	Edna Armstrong .....	Department labor ....	33	14 50
	F. C. Caldwell.....	Department labor and money advanced ....	34	60 02
	F. A. Fish .....	Volt ammeter, etc....	35	7 50
	W. H. Renck.....	Pattern work .....	36	56 00
	F. J. Hale .....	Drafting .....	37	23 33
	J. S. Wilson .....	Tracing .....	38	1 05
	Geo. R. Bott.....	Tracing .....	39	5 63
	A. J. Boehme .....	Tracing .....	40	10 73
	Laura Hill .....	Clerical labor .....	41	12 50
	R. W. Funk .....	Labor in store room...	42	33 00
	E. Heller .....	Campus work .....	43	10 00
	J. F. Clevinger.....	Campus work .....	44	12 31
	Carl Albin.....	Campus work .....	45	2 37
	F. E. Fleischer .....	Campus work .....	46	21 50
	John Sample .....	Campus work .....	47	8 25
	T. L. Wheeler .....	Campus work .....	48	1 25
	R. Escobar .....	Campus work .....	49	3 68
	John Frank .....	Campus work .....	50	2 18
July 6	F. Charles .....	Hauling .....	51	6 00
	Erner & Hopkins .....	Electrical supplies ....	52	25 33
	P. Hayden Sadlery & Hardware Co.....	Hardware .....	53	48 96
	Hann & Adair .....	Printing .....	54	20 45

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
July 6	Columbus Supply Co ...	Supplies .....	55	\$29 34
	James Penn .....	Hauling .....	56	3 65
	Franklin Toilet Supply Co	Towel service .....	57	5 56
	Capital City Mach. Wks.	Soil tester, etc.....	58	5 40
	Nitschke Bros .....	Printing .....	59	15 75
	Tallmadge Hdw. Co....	Hardware .....	60	17 69
	Palmer & Beck .....	Pipe elbow etc., ....	61	160 00
	The Miller Furniture Co	Table and chairs .....	62	52 00
	The H. Cole Co.....	Supplies .....	63	697 35
	Western Union Telegraph Co .....	Telegrams .....	64	6 75
	Champlin Printing Co.	Printing .....	65	140 20
	Kimball & Matthews...	Supplies .....	66	15 30
	Z. L. White & Co....	Muslin and cloth.....	67	3 17
	Payne-McDonald Hdw. Co .....	Hardware .....	68	27 92
	Central Ohio Paper Co.	Paper .....	69	19 65
	Kelton & Converse ....	Lumber etc., .....	70	26 74
	Shilling Foundry Co...	Castings .....	71	9 52
	The Miller Furniture Co.	Screen .....	72	8 95
	Schoedinger, Fearn & Co .....	Hardware .....	73	3 02
	Hall-Collins Hdw. Co..	Bolts and nuts.....	74	1 28
	Hager & Graves .....	Groceries .....	75	38 07
	The Acme Paving Co..	Cementing spring .....	76	281 50
	E. L. Charles .....	Rent of flowers .....	77	10 00
	The Kauffman-Lattimer Co .....	Drugs and sundries ..	78	22 54
	Jos. Schonthal .....	Iron strins .....	79	3 90
	Osborn, Williams & Horn .....	Coal .....	80	9 58
	Fred J. Heer .....	Slips .....	81	1 00
	Gretchen Miller .....	Work in library .....	82	2 00
	Hattie Hoffman .....	Work in library .....	83	4 70
	Bryson & Son .....	Cane seats .....	84	12 00
	The Seraphum Blank Book Co .....	Binding .....	85	248 90
	J. S. Abbott & Co.....	Keys and cloth .....	86	80
	C. E. Sherman .....	Summer school salary..	87	120 00
	The Jeffrey Mfg. Co....	Stay binding .....	88	2 80
	Charles Zinn .....	Brass castings .....	89	4 25
	Electric Sup. & Const. Co	Wire, etc., .....	90	13 09
	The Columbus Brass Co	Castings .....	91	1 55
	McClelland & Co .....	Supplies .....	92	1 75
	Blackwood, Green & Co	Brass, etc., .....	93	3 27
	The M. C. Lilley & Co.	Belts .....	94	4 00
	The Hanna Paint Co ..	Paint-brush .....	95	15
	A. W. Kiler.....	Supplies .....	96	3 30
	The Alpha Dairy Co..	Milk tickets .....	97	4 88
	The Livingston Seed Co	Flowers .....	98	24 00
	The D. C. Beggs Co ..	Decorating armory ....	99	100 00
	Prof. DeMilita .....	Music—commencement	100	16 00
	Domestic Laundry Co..	Washing towels .....	101	2 62
	The Tracy-Wells Co...	Rods and lanterns ....	102	16 00
	T. J. O'Neil .....	Rent of canvas.....	103	5 00
	Crystal Ice Mfg Co ....	Ice .....	104	1 25
	James G. Goodall .....	Commencement lunches	105	265 00
	Wm. Burdell, Jr.....	Repairing medicine balls	106	7 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
July 6	Engelke & Bigelow....	Freight and cartage...	107	\$30 00
	Batterson      Decorative House .....	Painting .....	108	15 50
	Charles T. Howe.....	Orchestra .....	109	35 00
	C. H. D. Robbins & Co..	Ribbon, etc. ....	110	13 20
	E. N. Webb .....	Clerical work .....	111	50
	W. S. Orvis .....	Paper and oil .....	112	2 10
	Central Union Telephone Co .....	Toll service .....	113	1 40
	The Ruggles-Gale Co..	Gold seals .....	114	60
	Krauss, Butler & Benham Co .....	Shades .....	115	4 00
	Green, Joyce & Co....	Ribbon .....	116	7 60
	Burrows Bros & Co....	Books .....	117	24 20
	G. E. Stechert.....	" .....	118	59 88
	Bausch & Lomb Optical Co .....	Supplies .....	119	177 76
	The Webb Stationery & Printing Co.....	Order books .....	120	18 00
	Crosby Steam Gage & Valve Co.....	Indicator, etc .....	121	69 62
	A. B. Davis .....	Sail and boat .....	122	35 00
	L. H. Ingham, Treas..	Annual dues .....	123	5 00
	Colansey Glass Mfg. Co.	Jars, rubbers, etc ..	124	4 50
	Library Bureau .....	Trays and cards .....	125	5 50
	Stumpf & Steurer.....	Bond advertisement ..	126	12 00
	F. J. Cellarius, Treas..	Advertisement .....	127	12 00
	The Schoepfle Mfg. & Lbr. Co .....	Lumber, etc .....	128	16 72
	Krupp & Goebel.....	Tables and chairs ..	129	9 00
	Carl L. Osberg.....	Tray and wash box ..	130	1 50
	O. Eggeling .....	Aquarium .....	131	33 75
	Addie L. Harvey .....	Specimens .....	132	4 50
	Rochester Optical Camera Co .....	Supplies .....	133	39 08
	G. Cramer Dry Plate Co	Plates .....	134	2 68
	Lincoln Electric Co ...	Electric supplies .....	135	62 81
	Cinti Screw & Tap Co..	Screws .....	136	1 00
	National Carbon Co ...	Carbon .....	137	75
	Boston Gear Works ...	Gear gauges, etc....	138	32 00
	Dodd, Mead & Co.....	Year-book .....	139	5 00
	R. R. Bowker .....	Index .....	140	3 50
	The Bowen-Merrill Co..	American fungi .....	141	10 00
	Alexander Duncker ...	Books .....	142	7 30
	Creamery Pkge Mfg. Co .....	Supplies .....	143	124 55
	H. R. Worthington ....	Pump .....	144	675 00
	The Robert Clarke Co..	Brinkerhoff's recollections .....	145	2 00
	Chicago Blue Print Paper Co .....	Blue print paper.....	146	16 96
	R. B. Sosman .....	Laboratory assistance..	147	14 55
	J. Roland Storey .....	Storey's system .....	148	20 50
	J. Bishop & Co .....	Repairing crucibles ..	149	44 73
	The Bristol Co .....	Voltmeter .....	150	48 00
	H. W. Johns Mfg. Co..	Paint, etc .....	151	23 15
	James G. Biddle .....	Apparatus .....	152	218 44
	Western Electric Co....	Register .....	153	35 00
	H. J. McTeague .....	Estimate No. 4, astronomer's residence ..	154	335 75
	Murray City Coal Co...	Coal .....	155	78 78

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
July 28	W. O. Thompson.....	Salary, July, 1900....	156	\$416 67
27	Alexis Cope .....	" " .....	157	187 50
	K. H. Duncan .....	" " .....	158	58 33
	E. D. Cockins.....	" " .....	159	58 33
6	Carl E. Steeb .....	" " .....	160	65 00
24	Benj. Irwin .....	19d. as watchman at \$1 50 .....	161	28 50
28	James Kelley .....	Salary, July, 1900 ....	162	30 00
	Thos. E. Osburn .....	" " .....	163	40 00
	Arthur Chantler .....	" " .....	164	45 00
	G. A. Goodspeed .....	" " .....	165	40 00
	Earl Conway .....	" " .....	166	20 00
	Jno. H. Brown.....	" " .....	167	25 00
	Jno. H. Brown.....	" " .....	168	15 00
	D. D. Geren .....	" " .....	169	40 00
	William Whitestine .....	" " .....	170	40 00
	Harry Chantler .....	" " .....	171	40 00
	W. Townsel .....	" " .....	172	25 00
	G. C. Denny.....	" " .....	173	40 00
	M. N. Cook.....	" " .....	174	40 00
	W. C. McCracken.....	" " .....	175	150 00
	C. M. Low.....	" " .....	176	54 17
	W. A. Standley.....	" " .....	177	50 00
	Benj. LeBay .....	" " .....	178	50 00
	Geo. R. Rose .....	" " .....	179	65 00
	Joseph Garrettson .....	" " .....	180	37 50
	F. J. Tyler.....	" " .....	181	25 00
	Frank Ruhlen .....	" " .....	182	66 67
	J. P. Covan .....	" " .....	183	70 00
	E. E. Harrold.....	" " .....	184	85 00
	A. F. Hall.....	" " .....	185	62 50
	C. H. Woodruff .....	" " .....	186	65 00
6	W. H. Miller Co.....	Valves, etc .....	187	9 08
7	Mason Snow .....	Services as watchman ..	188	19 50
11	C. N. Brown.....	Services summer school of engineering .....	189	225 00
18	Saunders & Esswein....	Final estimate, Towns- hend Hall .....	190	455 03
27	R. M. Rownd, P. M....	Deposit for postage, 2d class matter .....	191	10 00
28	Fred K. Luke .....	Salary as florist, July, 1900 .....	192	50 00
	A. G. McCall.....	Salary as janitor, July, 1900 .....	193	20 00
31	R. W. Funk.....	Work in store-room, July, 1900 .....	194	30 00
Aug. 1	Homer C. Price.....	Salary, July, 1900 ....	195	58 33
3	Edith R. Hubler.....	Work as stenographer, July, 1900 .....	196	25 00
7	Marion Peck .....	Labor .....	197	37 50
8	Frank Watkins .....	Painting, elect. lab....	198	89 00
	J. H. Randall.....	Carpenter work .....	199	54 80
	T. J. Godfrey.....	Expenses as trustee... 200	200	11 80
	H. J. McTeague.....	Estimate and extras ..	201	1,356 04
	Thomas Boude .....	Labor .....	202	34 50
	Laura L. Hill.....	Clerical work .....	203	15 00
	C. N. Mooney.....	Cleaning rifles .....	204	6 00
	F. C. McKinney.....	Guide service .....	205	23 75
	Mason Snow .....	Night-watchman .....	206	18 00
	D. S. White.....	Postage stamps .....	207	5 00
	H. C. Price.....	Dept. supplies .....	208	2 84



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Aug. 8	Clara Armstrong .....	Dept. labor .....	209	\$1 25
	Arthur Geren .....	Thumb tacks .....	210	45
	F. E. Fleischer.....	Labor on campus .....	211	16 56
	J. C. Perry.....	" " .....	212	27 75
	J. F. Clevinger.....	" " .....	213	3 25
	H. M. Templin.....	" " .....	214	2 56
	John Semple .....	" " .....	215	1 93
	C. N. Brown.....	Dept. supplies .....	216	41 88
	J. R. McDonald.....	Plastering .....	217	24 00
	A. F. Wilcox.....	Carpenter work .....	218	12 30
	A. D. Morely.....	" " .....	219	14 40
	Johnson Lewis .....	" " .....	220	12 30
	W. H. Case.....	Labor .....	221	22 50
	Harrison, Olds & Henderson .....	Att'y. fee in Kendrick and Evans cases ....	222	3,501 84
	Harry J. Hammond....	Dog skeleton .....	223	20 00
	Western Kieley Steam Spec. Co .....	Reducing valves .....	224	125 00
	Harrison Safety Boiler Works .....	Oil separator .....	225	115 00
	Watertown Steam Engine Co .....	Gov. pin and bushing..	226	15 00
	H. W. Johns Mfg. Co...	3-5 prepared white ....	227	21 00
	Holcomb & Hoke Mfg. Co .....	Brushes .....	228	38 75
	Elmer G. Willyoung....	Supplies .....	229	131 38
	Chas. F. Mason.....	Telegrams .....	230	3 65
	Torrey Botanical Club..	Index of Am. botany...	231	5 00
	The McMillan Co.....	Bailey's Cyclo. of Horti.	232	5 00
	A. J. Grout.....	U. A. Music Pleurocarpi. ....	233	7 50
	Chicago Lab. Sup. & Scale Co .....	Stands .....	234	76 20
	Eimer & Amend.....	Supplies .....	235	72 00
	A. B. Davis.....	Boat and repairs .....	236	2 75
	Sandusky Tool Co.....	Tools and work .....	237	6 46
	Geo. M. Rinkleff.....	$\frac{1}{2}$ gallon turpentine ....	238	80
	W. A. Graham.....	Drugs and sundries ....	239	2 85
	A. H. Andrews Co.....	Hyloplate .....	240	14 00
	American Bridge Co....	Beams, channels, etc ..	241	35 00
	Wagner Elec. Mfg. Co..	Supplies .....	242	135 00
	Bausch & Lomb Optical Co .....	Supplies .....	243	103 88
	Spahr & Glenn.....	Printing .....	244	59 25
	Franklin Toilet Sup. Co.	Towel supply .....	245	3 95
	R. A. McClure & Co....	Lumber .....	246	13 57
	Kelton & Converse....	Lumber .....	247	273 28
	Palmer & Beck.....	Cement, paint, etc .....	248	112 08
	Chas. W. Harper.....	Half-tones .....	249	23 60
	Tallmadge Hdw. Co....	Hardware .....	250	21 11
	Champlin Printing Co..	Printing .....	251	33 25
	J. M. & W. Westwater..	Supplies .....	252	7 20
	Erner & Hopkins.....	Supplies .....	253	217 52
	James Penn .....	Hauling .....	254	6 65
	Blackwood, Green & Co	Hardware .....	255	27 96
	Central Ohio Paper Co.	Paper and felt .....	256	8 08
	Columbus Supply Co....	Supplies .....	257	53 25
	E. Doddington & Co....	Lumber .....	258	36 95
	The Columbus Gas Co..	July gas .....	259	89 85
	Capital City Mche Wks.	Work on flue cleaner..	260	1 60

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Aug. 8	The Hanna Paint Mfg. Co	Paint, etc	261	\$12 40
	F. O. Schoedinger	Repairs	262	4 05
	The Hall-Collins Hdw. Co	Key-blanks	263	1 00
	Nitschke Brothers	Envelopes	264	5 00
	Columbus Wire & Iron Wks	Guards	265	4 00
	J. P. Carlile	Sand and cement	266	4 50
	The Columbus Brass Co.	Brass and rubber flange	267	50
	The Electric Sup. & Const. Co	Supplies	268	1 67
	The Ohio Sunday School Worker	Advertisement	269	12 00
	Cass Harkins	Tubing	270	84 00
	Columbus Mine & M. Sup. Co.	Hose, etc	271	80 50
	H. Braun Sons & Co.	Red lead	272	40
	The Livingston Seed Co.	Seed	273	9 35
	Postal Telegraph-Cable Co	Telegram	274	34
	Western Union Telegraph Co.	Telegrams	275	1 32
	J. F. Ridenour	Files	276	1 25
	The Ruggles-Gale Co.	Office supplies	277	3 95
	C. H. Giffin	Kleanall	278	30 00
	Am. District Telegraph Co	Box rent to 7-1-1900	279	27 00
	H. W. Pillow	Moving piano	280	4 00
	The Wolfram Guitar Co	Piano repairs	281	35 50
	J. S. Maclean	Frame	282	4 00
	The Jeffrey Mfg. Co.	Stay building	283	64
	Domestic Laundry	Towel washing	284	20 09
	Andrew Spittal	Labor	285	7 00
	Kimball & Matthews	Seeds plates	286	2 70
	King Ave. Pharmacy	Telegrams	287	51
	Columbus Plate & W. G. Co	Glass	288	60
	J. F. Clevinger	Work on herbarium	289	4 00
	Z. L. White & Co.	Shades	290	3 02
	Osborn & Devereaux	Upholstering chair	291	1 50
	L. S. Wells	Jahrbücher	292	2 50
	The Kauffman-Lattimer Co	Drugs and sundries	293	8 88
	P. F. Yoerger	Lettering signs	294	9 00
	Engelke & Bigelow	Freight and cartage	295	49 72
	McAllister, Mohler & Co	Cots	296	40 80
	Bryant Brothers	Art glass window	297	48 00
	Columbus Lab. Pulverizing Co	Ball mill and pulley	298	55 25
	J. J. Gheen	Plastering	299	124 40
	A. F. Fenstermaker	Painting	300	147 00
	T. J. O'Neil	Fancy stripe	301	35
	James S. Schofield	Ivory black	302	95
	Madden Decorative House	Papering	303	45 00
	Ben D. Potts	Hardware	304	85 58
9	L. B. Wing	Expenses at meeting	305	6 90
10	A. F. Wilcox	Grading	306	42 00
	Alexis Cope	Salary, August, 1900	307	187 50

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Aug. 25	W. O. Thompson.....	Salary, August, 1900..	308	\$416 67
	K. H. Duncan.....	" " ..	309	58 33
21	E. D. Cockins.....	" " ..	310	58 33
14	Carl E. Steeb.....	" " ..	311	65 00
25	James Kelley .....	" " ..	312	30 00
	Thos. E. Osburn.....	" " ..	313	40 00
	Mason Snow .....	" " ..	314	45 00
	W. C. McCracken.....	" " ..	315	150 00
	C. M. Low.....	" " ..	316	54 17
	Wm. Standley .....	" " ..	317	50 00
	Benj. Le Bay.....	" " ..	318	50 00
	Geo. R. Rose.....	" " ..	319	65 00
	Jos. Garrettsen .....	" " ..	320	37 50
22	J. P. Covan.....	" " ..	321	70 00
25	Frank Ruhlen .....	" " ..	322	66 67
	F. K. Luke.....	" " ..	323	50 00
	F. J. Tyler.....	" " ..	324	25 00
	E. E. Harrold.....	" " ..	325	85 00
	H. C. Price.....	" " ..	326	58 33
	A. F. Hall.....	" " ..	327	62 50
	C. H. Woodruff.....	" " ..	328	65 00
	Arthur Chantler .....	" " ..	329	45 00
	Earl Conway .....	" " ..	330	20 00
	G. A. Goodspeed.....	" " ..	331	40 00
22	Jno. H. Brown.....	" " ..	332	25 00
	" .....	" " ..	333	15 00
25	D. D. Geren.....	" " ..	334	40 00
	Wm. Whitestine .....	" " ..	335	40 00
	Harry Chantler .....	" " ..	336	40 00
	W. Townsel .....	" " ..	337	25 00
	G. C. Denny.....	" " ..	338	40 00
	M. N. Cook.....	" " ..	339	40 00
	A. G. McCall.....	" " ..	340	20 00
15	B. F. Thomas.....	Deptment supplies ....	341	8 91
17	W. F. Whitney.....	Files .....	342	3 00
25	Edith R. Hubler.....	Salary, August, 1900..	343	25 00
20	W. C. Mills.....	Salary, July and August, 1900 .....	344	70 00
24	J. McLain Smith.....	Expense .....	345	8 15
27	Herbert Osborn .....	Department supplies ..	346	8 11
Sept. 4	A. F. Fenstermaker....	Painting .....	347	189 80
	H. J. McTeague.....	Final estimate .....	348	256 85
	H. J. McTeague.....	Carpenter work .....	349	54 00
29	Thos. F. Hunt.....	Salary, Sept., 1900 .....	350	250 00
	W. D. Gibbs.....	Salary, Sept., 1900 ....	351	160 00
4	Max W. Morse.....	Department labor ....	352	5 70
	F. C. McKinney.....	Guide service .....	353	27 13
	W. C. McCracken.....	Money advanced .....	354	5 00
	J. H. Randall.....	Carpenter work .....	355	1 00
	A. F. Wilcox.....	" " ..	356	52 80
	A. D. Morely.....	" " ..	357	63 00
	Johnson Lewis .....	" " ..	358	63 30
	R. E. McIntosh.....	Wiring .....	359	61 50
	J. H. Conklin.....	Repairing, etc .....	360	76 00
	J. C. Perry.....	Campus work .....	361	23 32
	R. Escobar .....	" " ..	362	5 68
	F. E. Fleischer.....	" " ..	363	28 75
	J. R. Templin.....	" " ..	364	2 69
	John Marling .....	" " ..	365	3 12
	L. W. Funk.....	" " ..	366	2 50
	The Interior .....	Advertising .....	367	50 40

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900 Sept. 4	Hann & Adair.....	Printing .....	368	\$6 80
	Kimball & Matthews...	Plate holders .....	369	3 00
	E. A. Dunn.....	Campus work .....	370	1 40
	Laurel Hill .....	Clerical work .....	371	15 00
	W. H. Case.....	Cleaning boilers .....	372	33 00
	Marion Peck .....	Helping steam fitter ...	373	15 75
	Thomas Boude .....	Firing and repair work	374	43 50
	T. P. Lewis.....	Material .....	375	5 00
	Westinghouse Elect. & Mfg. Co .....	Supplies .....	376	17 89
	Electric Appliance Co..	Electrical supplies ...	377	30 32
	Republican Publishing Co .....	Advertising .....	378	21 00
	Brooks Oil Co.....	Oil .....	379	18 00
	J. Bishop & Co.....	Platinum .....	380	111 07
	Eimer & Amend.....	Filters .....	381	69 04
	Creamery Package Co..	Supplies .....	382	56 23
	Bausch & Lomb Optical Co .....	Covers .....	383	1 33
	The Kny-Scheerer Co..	Pins .....	384	16 68
	H. H. Brehme.....	Compressed cork .....	385	6 00
	J. F. Mack & Bro.....	Printing .....	386	6 00
	Standard Underground Cable Co .....	Cable .....	387	20 40
	Holophane Glass Co...	Glass .....	388	10 85
	Keasbey & Mattison...	Ash cord .....	389	5 25
	Bourne & Knowles Mfg. Co .....	Gaskets .....	390	3 45
	Star Wall Finish Co....	Star wall finish .....	391	9 93
	Murphy Iron Works...	Brick, etc .....	392	103 69
	The Reliance Gauge Column Co .....	Reliance S. W. column.	393	20 00
	Ft. Wayne Electric Wks	Cut-outs .....	394	2 40
	Champlin Printing Co..	Printing .....	395	46 70
	Tallmadge Hdw. Co...	Hardware .....	396	13 33
	Columbus Supply Co...	Supplies .....	397	122 85
	Palmer & Beck.....	Repairs, etc .....	398	70 45
	J. M. & W. Westwater.	Globes, brackets, etc .	399	58 96
	The Erner & Hopkins Co .....	Wire, sockets, etc ....	400	34 53
	Cols. M. & Mine Supply Co .....	Supplies .....	401	13 80
	Franklin Toilet Supply Co .....	Towel service .....	402	4 60
	Blackwood, Green & Co	Hardware .....	403	33 76
	Ruggles-Gale Co .....	Ledger and memoran- dum books .....	404	3 80
	Hanna Paint Mfg. Co..	Brushes .....	405	23
	E. Doddington & Co...	Lumber .....	406	111 41
	Schoedinger, Fearn & Co .....	Hardware .....	407	1 75
	John Keller .....	Paving stone .....	408	72 00
	Cap. City Mantel Co...	Mantles and setting ...	409	130 00
	S. B. Ridenour.....	Blackboard material ..	410	6 00
	Cols. Citz. Tel. Co.....	Telephone rent .....	411	64 15
	Frankenberg Bros .....	Tubes .....	412	72
	McClelland & Co.....	Copy books and sup- plies .....	413	16 78
	T. J. Dundon & Co....	Sawdust .....	414	3 00
	Standard Oil Co.....	Oil .....	415	9 86
	C. H. D. Robbins & Co..	Stamping envelopes ...	416	1 80



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Sept. 4	Smith Premier Type-writer Co .....	Machine .....	417	\$69 00
	Tracy-Wells Co .....	Sponges, pencils, etc .	418	6 04
	J. C. Howard .....	Painting .....	419	60 00
	W. H. Edwards .....	Painting .....	420	47 00
	Kimball & Matthews ..	Burnisher .....	421	6 50
	Cols. Brass Co .....	Piston .....	422	50
	Oscar S. Lear .....	Typewriter .....	423	80 00
	L. S. Wells .....	"Wissen—botanik" ..	424	5 10
	Murray City Coal Co ..	Coal .....	425	49 95
	Robt. F. Griggs .....	Tray .....	426	50
	Cols. Slate Co .....	Slate .....	427	15 00
	Kauffman-Lattimer Co.	Drugs and sundries ..	428	1,659 14
	Thos. H. Kearney .....	Herbarium .....	429	300 00
	J. S. Ritchey .....	Platinum .....	430	120 70
	Engelke & Bigelow ....	Freight and cartage ...	431	19 37
	Thos. J. Godfrey .....	Expenses as trustee ..	432	7 70
5	Herbert Osborn .....	Summer salary .....	433	60 00
	F. L. Landacre .....	Summer salary .....	434	60 00
	R. M. Rownd, P. M. ....	Postage deposit .....	435	10 00
6	Webb St'y & Prtg. Co..	Inkstand .....	436	3 50
7	Cols. Gas Co .....	August gas .....	437	99 15
29	John W. Decker .....	September salary ....	438	140 00
	Frank Ruhlen .....	" " .....	439	66 66
	H. A. Weber .....	" " .....	440	225 00
	A. E. Vinson .....	" " .....	441	85 00
	Geo. W. Knight .....	" " .....	442	250 00
	A. H. Tuttle .....	" " .....	443	90 00
	A. M. Bleile .....	" " .....	444	225 00
	C. B. Morrey .....	" " .....	445	110 00
	M. Dresbach .....	" " .....	446	50 00
	H. C. Lord .....	" " .....	447	200 00
	W. A. Kellerman .....	" " .....	448	225 00
	J. H. Schaffner .....	" " .....	449	110 00
	F. K. Luke .....	" " .....	450	50 00
	F. J. Tyler .....	" " .....	451	25 00
	Wm. McPherson .....	" " .....	452	225 00
	S. A. Norton .....	" " .....	453	125 00
	W. E. Henderson .....	" " .....	454	100 00
	H. C. Gore .....	" " .....	455	60 00
	C. P. Linville .....	" " .....	456	30 00
	W. L. Dubois .....	" " .....	457	30 00
	C. H. Kimberly .....	" " .....	458	30 00
	C. N. Brown .....	" " .....	459	225 00
	C. E. Sherman .....	" " .....	460	110 00
	E. E. Harrold .....	" " .....	461	85 00
	N. P. Oglesby .....	" " .....	462	45 00
	Edw. Orton, Jr. ....	" " .....	463	190 00
	S. V. Peppel .....	" " .....	464	60 00
	Perla G. Bowman .....	" " .....	465	140 00
	Cornelia P. Souther ..	" " .....	466	90 00
	J. N. Bradford .....	" " .....	467	190 00
	Thos. E. French .....	" " .....	468	110 00
	T. K. Lewis .....	" " .....	469	80 00
	Silas Martin .....	" " .....	470	50 00
	E. E. Nobles .....	" " .....	471	30 00
	F. C. Clark .....	" " .....	472	180 00
	S. F. Smyser .....	" " .....	473	30 00
	J. P. Gordy .....	" " .....	474	225 00
	F. M. Hamilton .....	" " .....	475	80 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900 Sept. 29	F. C. Caldwell.....	September salary .....	476	\$160 00
	S. S. Edmonds.....	" " .....	477	60 00
	J. P. Covan.....	" " .....	478	70 00
	A. C. Barrows.....	" " .....	479	225 00
	J. R. Taylor.....	" " .....	480	120 00
	W. H. Siebert.....	" " .....	481	150 00
	C. S. Prosser.....	" " .....	482	160 00
	J. A. Bownocker.....	" " .....	483	140 00
	W. C. Mills.....	" " .....	484	35 00
	E. A. Eggers.....	" " .....	485	225 00
	C. W. Mesloh.....	" " .....	486	130 00
	E. H. Moore.....	" " .....	487	20 00
	J. R. Smith.....	" " .....	488	225 00
	A. W. Hodgman.....	" " .....	489	120 00
	W. S. Elden.....	" " .....	490	80 00
	W. R. Lazenby.....	" " .....	491	225 00
	H. C. Price.....	" " .....	492	58 33
	F. E. Sanborn.....	" " .....	493	200 00
	W. M. Renck.....	" " .....	494	90 00
	W. A. Knight.....	" " .....	495	110 00
	C. P. Crowe.....	" " .....	496	85 00
	S. C. Derby.....	" " .....	497	225 00
	Wm. F. Hunter.....	" " .....	498	250 00
	J. H. Collins.....	" " .....	499	20 00
	J. A. Shauk.....	" " .....	500	17 50
	E. B. Kinkad.....	" " .....	501	120 00
	W. H. Page.....	" " .....	502	140 00
	E. O. Randall.....	" " .....	503	70 00
	D. F. Pugh.....	" " .....	504	95 00
	Olive B. Jones.....	" " .....	505	135 00
	Harriett Townshend ..	" " .....	506	55 00
	Gertrude Kellicott .....	" " .....	507	55 00
	Maude Jeffrey .....	" " .....	508	55 00
	Lucy Allen .....	" " .....	509	55 00
	C. B. Guittard.....	" " .....	510	55 00
	R. D. Bohannon.....	" " .....	511	225 00
	G. W. McCoard.....	" " .....	512	160 00
	C. L. Arnold.....	" " .....	513	100 00
	K. D. Swartzel.....	" " .....	514	100 00
	S. E. Rasor.....	" " .....	515	70 00
	J. F. Travis.....	" " .....	516	30 00
	A. E. Davis.....	" " .....	517	15 00
	W. T. Magruder.....	" " .....	518	225 00
	E. A. Hitchcock.....	" " .....	519	165 00
	A. F. Hall.....	" " .....	520	62 50
	Geo. W. Frost.....	" " .....	521	30 00
	N. W. Lord.....	" " .....	522	200 00
	E. E. Sommermeier.....	" " .....	523	75 00
	Gustav Bruder .....	" " .....	524	20 00
	F. A. Ray.....	" " .....	525	200 00
	Geo. B. Kauffman.....	" " .....	526	200 00
	W. A. Landacre.....	" " .....	527	80 00
	W. H. Scott.....	" " .....	528	225 00
	Arthur E. Davies.....	" " .....	529	30 00
	C. P. Linhart.....	" " .....	530	160 00
	Clara Berryman .....	" " .....	531	75 00
	D. C. Huddleson.....	" " .....	532	50 00
	B. F. Thomas.....	" " .....	533	225 00
	W. L. Graves.....	" " .....	534	100 00
	H. C. Allen.....	" " .....	535	115 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Sept. 29	G. H. McKnight.....	September salary .....	536	\$100 00
	W. E. Bohn.....	" " .....	537	30 00
	B. L. Bowen.....	" " .....	538	225 00
	C. A. Bruce.....	" " .....	539	110 00
	D. S. White.....	" " .....	540	170 00
	C. B. Frederick.....	" " .....	541	90 00
	O. V. Brumley.....	" " .....	542	60 00
	H. Osborn .....	" " .....	543	225 00
	J. S. Hine.....	" " .....	544	95 00
	F. L. Landacre.....	" " .....	545	95 00
	E. D. Ball.....	" " .....	546	30 00
20	W. O. Thompson.....	" " .....	547	416 67
17	Alexis Cope .....	" " .....	548	187 50
29	K. H. Duncan.....	" " .....	549	58 33
	E. D. Cockins.....	" " .....	550	58 33
	Carl E. Steeb.....	" " .....	551	65 00
	James Kelley .....	" " .....	552	30 00
	Thos. E. Osburn.....	" " .....	553	40 00
	E. R. Hubler.....	" " .....	554	25 00
	W. C. Weir.....	" " .....	555	20 00
	Arthur Chantler .....	" " .....	556	45 00
	Earl Conway .....	" " .....	557	20 00
	G. A. Goodspeed.....	" " .....	558	40 00
	J. H. Brown.....	" " .....	559	25 00
	" .....	" " .....	560	15 00
	D. D. Geren.....	" " .....	561	40 00
	Wm. Whitestine .....	" " .....	562	40 00
	Harry Chantler .....	" " .....	563	40 00
	W. Townsell .....	" " .....	564	25 00
	G. C. Denny.....	" " .....	565	40 00
	M. N. Cook.....	" " .....	566	40 00
	Wm. Conklin .....	" " .....	567	40 00
	Wm. C. McCracken....	" " .....	568	150 00
	C. M. Low.....	" " .....	569	54 17
	Wm. Standley .....	" " .....	570	50 00
	Benj. Le Bay.....	" " .....	571	50 00
	Thos. A. Boude.....	" " .....	572	50 00
	W. H. Case.....	" " .....	573	45 00
	Marion Peck .....	" " .....	574	40 00
	Geo. R. Rose.....	" " .....	575	65 00
	Jos. R. Garrettson.....	" " .....	576	37 50
	C. L. E. Moore.....	" " .....	577	15 00
	C. H. Woodruff.....	" " .....	578	65 00
	Mary W. Rice.....	" " .....	579	25 00
	J. V. Denney.....	" " .....	580	225 00
13	R. M. Rownd, P. M....	500 2c. postage stamps.	581	10 00
12	Columbus St. R'y Co...	Car tickets .....	582	5 00
17	R. M. Rownd, P. M....	Stamps and envelopes .	583	14 88
20	John T. Mack.....	Trustee expenses .....	584	25 91
	C. W. Bryant.....	Cleaning vaults .....	585	35 00
21	M. J. Kellenberger.....	Services .....	586	15 00
24	Lily Weeks .....	Janitress services .....	587	4 50
29	E. G. Bailey.....	September salary .....	588	18 00
	R. T. Jones.....	" " .....	589	20 00
Nov. 24	C. L. E. Moore.....	November salary .....	590	15 00
Sept. 29	Wm. Davis .....	September salary .....	591	50 00
	R. E. McIntosh.....	" " .....	592	12 50
	A. G. McCall.....	" " .....	593	24 00
	Dan E. Ball.....	" " .....	594	30 00
	N. O. Ford.....	" " .....	595	25 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Sept. 29	Chas. B. Sayre.....	September salary .....	596	\$25 00
	H. B. Brooks.....	" " .....	597	20 00
	J. Paul Fischer.....	" " .....	598	180 00
	D. S. White.....	Balance, Sept. salary..	599	10 00
	W. C. Weir.....	Increase of salary .....	600	5 00
	W. H. Case.....	Balance, first install- ment of salary .....	601	5 00
	F. E. Kester.....	September salary .....	602	80 00
	J. E. Boyd.....	September salary .....	603	120 00
	Silas Martin .....	Balance of salary in- stallment .....	604	50 00
	Walter Fischer .....	September salary .....	605	25 00
	E. W. Hart & Co.....	Law building plans ..	606	100 00
	Peters, Burns & Pretz- inger .....	Law building plans ..	607	100 00
	John Ricketts .....	Service as janitor, Sept. 15 to 30, 1900..	608	22 50
Oct. 1	Lily Weeks .....	Janitress work .....	609	5 00
3	Edith R. Hubler.....	Clerical work .....	610	3 00
	Laurel Hill .....	Stenographic services .	611	15 00
	A. F. Wilcox.....	Carpenter work .....	612	54 75
	A. D. Morely.....	Carpenter work .....	613	51 90
	J. C. Perry.....	Students labor .....	614	17 55
	Mason Snow .....	Labor .....	615	21 00
	Chas. N. Mooney.....	Labor .....	616	11 80
	W. Morelan .....	Carpenter .....	617	5 10
	H. L. Belden.....	Campus work .....	618	1 43
	E. T. Clapp.....	Campus work .....	619	1 00
	L. A. Breckler.....	Campus work .....	620	1 12
	E. R. Minns.....	Campus work .....	621	1 06
	S. J. Weaver.....	Campus work .....	622	2 00
	P. E. Stahl.....	Campus work .....	623	2 50
	Earl Bowser .....	Campus work .....	624	1 25
	A. M. Irwin.....	Campus work .....	625	1 25
	J. S. Wilson.....	Campus work .....	626	1 62
	L. E. Wilson.....	Campus work .....	627	2 50
	John Marling .....	Campus work .....	628	22 25
	F. E. Fleischer.....	Campus work .....	629	21 37
	W. D. Gibbs.....	Advertisement .....	630	9 00
	Honline & West.....	Books .....	631	151 77
	K. G. Thompson.....	Labor .....	632	10 45
	Grace Eagleson .....	Clerical work .....	633	9 15
	Frank C. McKinney....	Guide service .....	634	17 22
	Carl C. Wilcox.....	Guide service .....	635	5 25
	C. W. Schubert.....	Guide service .....	636	1 95
	Bertha Patterson .....	Clerical work .....	637	90
	Annis McLaughlin .....	Clerical work .....	638	3 40
	Helen Powell .....	Clerical work .....	639	12 30
	J. W. Burkett.....	Feed .....	640	41 43
	J. A. Bownocker.....	Freight .....	641	5 50
	R. E. McIntosh .....	Wiring .....	642	15 00
	Wilbur Sample .....	Steam fitting .....	643	4 50
	W. R. Chambers.....	Janitor work .....	644	2 69
	E. G. Bailey.....	Janitor work .....	645	7 80
	Geo. W. Frost.....	Fellowship work .....	646	8 00
	R. W. Funk.....	Work in store room ...	647	41 32
	G. B. Grubb.....	Making case .....	648	10 00
	C. C. Poindexter.....	Labor .....	649	1 75
	R. E. McIntosh.....	Student labor .....	650	8 25
	Harry Lynn .....	Labor wiring .....	651	9 40



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Oct. 3	Maurice Prange .....	Wiring .....	652	\$7 96
	G. B. Grubb .....	Carpenter work .....	653	1 20
	H. C. Nidy .....	Wiring .....	654	3 38
	Herbert Osborn .....	Money advanced .....	655	5 70
	L. Hayes Clark .....	Watchman .....	656	7 50
	Engelke & Bigelow .....	Freight and cartage ...	657	50 27
	Capital City Machine Wks .....	Supplies .....	658	104 16
	Payne-McDonald Hdw. Co .....	Hardware .....	659	12 35
	Seraphim Blank Book Co .....	Binding .....	660	177 85
	Lawrence Press Co. ....	Printing books .....	661	6 00
	McClelland & Co. ....	Falcon pens .....	662	1 00
	Miller's Fair .....	Mop-buckets .....	663	3 00
	The H. Cole Co. ....	Thumb tacks .....	664	3 00
	Ohio State Journal Co. .	Advertisement .....	665	3 00
	Columbus Dispatch ....	Advertisement .....	666	1 50
	Murray City Coal Co. .	Coal .....	667	663 66
	McAllister, Mohler & Co .....	Vienna chairs .....	668	104 00
	H. Braun Sons & Co. .	Drugs and sundries ...	669	16 32
	S. A. Wilson .....	Geological surveys ...	670	15 00
	The Rood Lumber Co. .	100 trays .....	671	25 00
	Eaton Machine Co. ....	Staples .....	672	6 46
	Osborn, Williams & Horn .....	Coal .....	673	23 00
	J. F. Williams Mlg. Co.	Bran .....	674	15 60
	New Leonard Ave. Coal Co .....	Boiler compound .....	675	4 00
	The H. Mithoff & Co. .	Strainer wire .....	676	19
	The Rayburn Furnace & Fdry. Co .....	Castings .....	677	1 87
	Franklin Toilet Supply Co .....	Towel supply .....	678	2 25
	Monypeny - Hammond Co .....	Matches .....	679	2 75
	The Kauffman-Lattimer Co .....	Drugs and sundries ...	680	403 30
	Green, Joyce & Co. ....	Towels .....	681	63 00
	Logan McCormick ....	Frames .....	682	12 70
	Crystal Ice Mfg. Co. ....	Ice coupon book No. 5826 .....	683	1 00
	J. J. Gheen .....	Plastering .....	684	110 50
	E. C. Kissinger .....	Sand and cement .....	685	14 91
	Bell Picture Frame Co. .	Moulding and backing..	686	1 15
	C. T. Phillips .....	Papering .....	687	20 00
	Brust & Bauch .....	Repairing masonry ...	688	42 00
	Batterson Decorative House .....	Papering .....	689	15 00
	Bucher Engraving Co. .	Half tones .....	690	6 25
	Charles W. Harper .....	Advertising cuts .....	691	4 20
	George A. Jewett .....	Advertisement .....	692	5 00
	James P. Carlile .....	Brick .....	693	14 00
	Hall-Collins Hardware Co .....	Pruning saws .....	694	1 50
	Blackwood, Green & Co	Hardware .....	695	8 32
	E. Doddington & Co. .	Lumber .....	696	136 30
	Kelton & Converse .....	Lumber .....	697	28 24
	Champlin Printing Co. .	Printing .....	698	231 80

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Oct. 3	A. F. Fenstermaker.....	Painting .....	699	\$156 20
	Columbus Mill & Mine Supply Co .....	Packing .....	700	2 40
	Smith Bros.' Hdw. Co..	Locks and files .....	701	21 68
	Standard Oil Co.....	Grease .....	702	3 00
	Electric Supply & Const. Co .....	Supplies .....	703	2 24
	Central Ohio Paper Co.	Paper .....	704	7 03
	Electric Supply & Const. Co .....	Supplies .....	705	31 56
	Columbus Brass Co....	Supplies .....	706	40 30
	Nitschke Bros .....	Printing ink .....	707	44 25
	Tallmadge Hdw. Co....	Hardware .....	708	50 67
	The Erner & Hopkins Co .....	Supplies .....	709	30 23
	James Penn .....	Hauling .....	710	1 40
	Hann & Adair.....	Printing .....	711	21 80
	J. S. Abbott & Co.....	Hardware .....	712	22 48
	Columbus Supply Co..	Supplies .....	713	356 57
	Johnson Lewis .....	Carpenter work .....	714	36 75
	Burrows Bros.' Co....	Books .....	715	20 60
	Westinghouse El. & Mfg. Co .....	Transformers .....	716	461 60
	Electric Appliance Co..	Electrical supplies .....	717	78 01
	Bausch & Lomb Optical Co .....	Microscopes .....	718	45 60
	The Babcock-Wilcox Co	Tubes, etc., .....	719	88 50
	Murphy Iron Works...	Bars and brasses .....	720	44 59
	The Re New Lamp Co..	Lamps .....	721	50 00
	Utica Steam Gauge Co.	Gauges .....	722	30 94
	Joseph Dixon Crucible Co .....	Crayons and graphite..	723	5 31
	Sipe & Sigler.....	Bolt connectors .....	724	4 93
	Weston Elect. Inst. Co.	Volt meter .....	725	63 00
	E. H. Sargent & Co....	Drugs and sundries ...	726	404 70
	W. H. Mullins.....	Hall balls .....	727	15 33
	Eimer & Amend.....	Chart of elements.....	728	4 50
	Geo. Wahr .....	Books .....	729	3 25
	Joy Smith .....	Wiring .....	730	7 53
	Sherwood Mfg. Co....	Cleaners .....	731	9 00
	T. H. McAllister.....	Slides .....	732	15 60
	Otto Kuntze .....	Minerals .....	733	30 00
	Syracuse Extract Co..	Deodorizer .....	734	17 50
	Richmond Chair Co....	Chairs .....	735	105 84
	Webb Stationery & Prtg. Co .....	Office supplies .....	736	21 30
	A. E. Breckenridge....	Rent of wagon .....	737	10 00
	Masury, Young & Co..	Cylinder oil .....	738	21 40
	G. E. Stechert.....	Books .....	739	962 76
	Alex. Galbraith .....	Volume 9, report .....	740	2 00
	Irwin Shepard .....	Proceedings N. E. A..	741	2 50
	Boston Book Co.....	Books .....	742	14 81
	R. R. Bowker.....	Annual and catalogue..	743	7 00
	D. Appleton & Co.....	Barker .....	744	6 00
	Library Bureau .....	Supplies .....	745	13 43
	Carl Freigan .....	Record .....	746	3 00
	Wm. Little .....	Geol. survey of Canada.	747	5 39
	The Interior .....	Advertisement .....	748	5 60
	Am. Grange Bulletin...	Advertisement .....	749	18 90
	W. H. Hoskins.....	Advertisement .....	750	26 25

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Oct. 3	Western Union Tele- graph Co .....	Telegrams .....	751	\$2 37
	Herbert Osborn .....	Department supplies ..	752	2 37
6	Columbus Gas Co. ....	September gas .....	753	83 55
	Columbus Water Works	Hydrant No. 2814 and No. 6513 .....	754	507 99
8	Lily Weeks .....	Salary 1 week .....	755	5 00
	R. M. Rownd, P. M. ....	Postage stamps .....	756	20 00
	F. C. Long .....	Guide service .....	757	4 50
	J. McLain Smith .....	Expenses as trustee ...	758	11 25
11	John T. Mack .....	Expenses meeting Sep- tember 25, 26, 1900 .	759	10 15
27	C. H. Woodruff .....	October salary .....	760	65 00
	Mary W. Rice .....	" " .....	761	25 00
	Dan E. Ball .....	" " .....	762	30 00
	Thos. F. Hunt .....	" " .....	763	250 00
	W. D. Gibbs .....	" " .....	764	160 00
	John W. Decker .....	" " .....	765	140 00
	Frank Ruhlen .....	" " .....	766	66 66
	H. A. Weber .....	" " .....	767	225 00
	A. E. Vinson .....	" " .....	768	85 00
	Geo. W. Knight .....	" " .....	769	250 00
	A. H. Tuttle .....	" " .....	770	90 00
	Chas. B. Sayre .....	" " .....	771	25 00
	A. M. Bleile .....	" " .....	772	225 00
	C. B. Morrey .....	" " .....	773	110 00
	M. Dresbach .....	" " .....	774	50 00
	H. C. Lord .....	" " .....	775	200 00
	A. G McCall .....	" " .....	776	16 00
	W. A. Kellerman .....	" " .....	777	225 00
	J. H. Schaffner .....	" " .....	778	110 00
	Walter Fischer .....	" " .....	779	25 00
	F. K. Luke .....	" " .....	780	50 00
	F. J. Tyler .....	" " .....	781	25 00
	Wm. McPherson .....	" " .....	782	225 00
	Sidney A. Norton .....	" " .....	783	125 00
	W. E. Henderson .....	" " .....	784	100 00
	H. C. Gore .....	" " .....	785	60 00
	C. P. Linville .....	" " .....	786	30 00
	W. L. Dubois .....	" " .....	787	30 00
	C. H. Kimberly .....	" " .....	788	30 00
	C. N. Brown .....	" " .....	789	225 00
	C. E. Sherman .....	" " .....	790	110 00
	Wm. L. Davies .....	" " .....	791	50 00
	E. E. Harrold .....	" " .....	792	85 00
	N. P. Oglesby .....	" " .....	793	45 00
	Edw. Orton, Jr. ....	" " .....	794	190 00
	S. V. Poppel .....	" " .....	795	60 00
	Perla G. Bowman .....	" " .....	796	140 00
	C. P. Souther .....	" " .....	797	90 00
	J. N. Bradford .....	" " .....	798	190 00
	Thos. E. French .....	" " .....	799	110 00
	T. K. Lewis .....	" " .....	800	80 00
	Silas Martin .....	" " .....	801	100 00
	E. E. Nobles .....	" " .....	802	30 00
	F. C. Clark .....	" " .....	803	180 00
	S. F. Smyser .....	" " .....	804	30 00
	J. P. Gordy .....	" " .....	805	225 00
	F. M. Hamilton .....	" " .....	806	80 00
	F. C. Caldwell .....	" " .....	807	160 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Oct. 27	S. S. Edmonds.....	October salary .....	808	\$60 00
	J. P. Covan.....	" " .....	809	70 00
	H. C. Nidy.....	" " .....	810	12 50
	A. C. Barrows.....	" " .....	811	225 00
	J. R. Taylor.....	" " .....	812	120 00
	W. H. Siebert.....	" " .....	813	120 00
	C. S. Prosser.....	" " .....	114	160 00
	John A. Bownocker....	" " .....	815	140 00
	W. C. Mills.....	" " .....	816	35 00
	E. A. Eggers.....	" " .....	817	225 00
	C. W. Mesloh.....	" " .....	818	130 00
	E. H. Moore.....	" " .....	819	20 00
	J. R. Smith.....	" " .....	820	225 00
	A. W. Hodgman.....	" " .....	821	120 00
	W. S. Elden.....	" " .....	822	80 00
	W. R. Lazenby.....	" " .....	823	225 00
	H. C. Price.....	" " .....	824	58 33
	F. E. Sanborn.....	" " .....	825	200 00
	W. H. Renck.....	" " .....	826	90 00
	W. A. Knight.....	" " .....	827	110 00
	C. P. Crowe.....	" " .....	828	85 00
	Lily Weeks .....	" " .....	829	5 00
	Sarah Barrows .....	" " .....	830	15 00
	S. C. Derby.....	" " .....	831	225 00
	Wm. F. Hunter.....	" " .....	832	250 00
	J. H. Collins.....	" " .....	833	20 00
	J. A. Shauck.....	" " .....	834	17 50
	E. B. Kinkead.....	" " .....	835	120 00
	W. H. Page.....	" " .....	836	140 00
	E. O. Randall.....	" " .....	837	70 00
	D. F. Pugh.....	" " .....	838	95 00
	Olive B. Jones.....	" " .....	839	135 00
	H. N. Townshend.....	" " .....	840	55 00
	Gertrude Kellicott .....	" " .....	841	55 00
	Maude Jeffrey .....	" " .....	842	55 00
	Lucy Allen .....	" " .....	843	55 00
	C. B. Guittard.....	" " .....	844	55 00
	R. D. Bohannon.....	" " .....	845	225 00
	Geo. W. McCoard.....	" " .....	846	160 00
	C. L. Arnold.....	" " .....	847	100 00
	K. D. Swartzel.....	" " .....	848	100 00
	S. E. Rasor.....	" " .....	849	70 00
	J. F. Travis.....	" " .....	850	30 00
	W. E. Davis.....	" " .....	851	15 00
	W. T. Magruder.....	" " .....	852	225 00
	E. A. Hitchcock.....	" " .....	853	165 00
	A. F. Hall.....	" " .....	854	62 50
	Geo. W. Frost.....	" " .....	855	30 00
	E. G. Bailey.....	" " .....	856	18 00
	N. W. Lord.....	" " .....	857	200 00
	E. E. Somermeier.....	" " .....	858	75 00
	Gustav Bruder .....	" " .....	859	20 00
	F. A. Ray.....	" " .....	860	200 00
	Geo. B. Kauffman.....	" " .....	861	200 00
	W. A. Landacre.....	" " .....	862	80 00
	W. H. Scott.....	" " .....	863	225 00
	Arthur E. Davies.....	" " .....	864	30 00
	C. P. Linhart.....	" " .....	865	160 00
	Clara Berryman .....	" " .....	866	75 00



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Oct. 27	D. C. Huddleson.....	October salary .....	867	\$50 00
	B. F. Thomas.....	" " .....	868	225 00
	J. E. Boyd.....	" " .....	869	120 00
	F. E. Kester.....	" " .....	870	80 00
	H. B. Brooks.....	" " .....	871	20 00
	J. V. Denney.....	" " .....	872	225 00
	W. L. Graves.....	" " .....	873	100 00
	H. C. Allen.....	" " .....	874	115 00
	Geo. H. McKnight....	" " .....	875	100 00
	W. E. Bohn.....	" " .....	876	30 00
	B. L. Bowen.....	" " .....	877	225 00
	C. A. Bruce.....	" " .....	878	110 00
	R. T. Jones.....	" " .....	879	20 00
	D. S. White.....	" " .....	880	180 00
	C. B. Frederick.....	" " .....	881	90 00
	O. V. Brumley.....	" " .....	882	60 00
	Paul Fischer .....	" " .....	883	180 00
	Herbert Osborn .....	" " .....	884	225 00
	J. S. Hine.....	" " .....	885	95 00
	F. L. Landacre.....	" " .....	886	95 00
	E. D. Ball.....	" " .....	887	30 00
	W. O. Thompson.....	" " .....	888	416 67
	Alexis Cope .....	" " .....	889	187 50
	K. H. Duncan.....	" " .....	890	58 33
	E. D. Cockins.....	" " .....	891	58 33
	Carl E. Steeb.....	" " .....	892	65 00
	John C. Ricketts.....	" " .....	893	45 00
	James Kelley .....	" " .....	894	30 00
	E. R. Hubler.....	" " .....	895	25 00
	W. C. Weir.....	" " .....	896	25 00
	Arthur Chantler .....	" " .....	897	45 00
	Earl Conway .....	" " .....	898	20 00
	G. A. Goodspeed.....	" " .....	899	40 00
	J. H. Brown .....	" " .....	900	15 00
	J. H. Brown.....	" " .....	901	25 00
	D. D. Geren.....	" " .....	902	40 00
	T. E. Osborn.....	" " .....	903	40 00
	W. Whitestine .....	" " .....	904	40 00
	Harry Chantler .....	" " .....	905	40 00
	W. Townsell .....	" " .....	906	25 00
	G. C. Denny.....	" " .....	907	40 00
	M. N. Cook.....	" " .....	908	40 00
	Wm. Conklin .....	" " .....	909	40 00
	W. C. McCracken.....	" " .....	910	150 00
	C. M. Low.....	" " .....	911	54 17
	Wm. Standley .....	" " .....	912	50 00
	Benj. LeBay .....	" " .....	913	50 00
	Thos. A. Boude.....	" " .....	914	50 00
	W. H. Case.....	" " .....	915	50 00
	Marion Peck.....	" " .....	916	40 00
	Geo. R. Rose.....	" " .....	917	65 00
	J. A. Garrettson.....	" " .....	918	37 50
	C. L. E. Moore.....	" " .....	919	15 00
	R. A. Abbott.....	" " .....	920	30 00
19	Harriet Burr .....	September salary .....	921	25 00
	Lilly Weeks.....	1 week salary .....	922	5 00
27	N. W. Ford.....	October salary .....	923	25 00
	J. C. Perry.....	" " .....	924	12 50
	Harriett Burr .....	" " .....	925	25 00
	Harry Hance .....	" " .....	926	10 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Oct. 29	Sarah Barrows .....	October salary .....	927	\$15 00
	Cols. Water Works.....	Water rents .....	928	3 00
	M. J. Kellenberger.....	Services .....	929	20 00
	Lilly Weeks.....	Work as janitress .....	930	5 00
31	Harry Hance .....	September salary .....	931	10 00
Nov. 3	H. M. Templin.....	Sept. and Oct. salary ..	932	67 00
5	Lily Weeks .....	Janitress .....	933	5 00
11	Columbus Gas Co.....	October gas .....	934	146 70
9	W. O. Thompson.....	November salary .....	935	416 67
	Thos. J. Godfrey.....	Expenses to date .....	936	94 45
	Honline & West.....	Books .....	937	80 12
10	A. F. Wilcox.....	Carpenter work .....	938	36 15
	Johnson Lewis .....	" " .....	939	43 05
	Marion A. Warner.....	" " .....	940	11 55
	A. D. Morely.....	" " .....	941	42 60
	Wilbert Morelan .....	" " .....	942	11 10
	J. H. Randall.....	" " .....	943	10 80
13	Ernest Pierce .....	Student labor .....	944	5 45
	Arthur Geren .....	Supplies .....	945	3 30
	Arthur Goddard .....	Helping wiring .....	946	6 89
	Laurel Hill .....	Clerical service .....	947	17 00
	Helen R. Powell.....	Clerical service .....	948	17 50
	R. E. McIntosh.....	Student labor .....	949	11 95
	James E. Boyd.....	Labor, etc .....	950	10 50
	Maurice Prange.....	Student labor .....	951	14 05
	Harry Kinnear .....	Student labor .....	952	10 13
	O. S. U. Y. M. C. A. ..	Advertisement .....	953	5 00
	Clara M. Berryman.....	Supplies .....	954	1 36
	L. W. Funk.....	Work in department ..	955	3 30
	Wm. McPherson.....	Supplies .....	956	6 35
	C. E. Jackson.....	Department labor ....	957	10 50
	C. H. Woodruff.....	Lumber and construc- tion .....	958	40 00
	Geo. R. Bott.....	Labor .....	959	1 95
	Geo. W. Frost.....	" .....	960	11 80
	A. J. Boehme.....	" .....	961	1 20
	C. E. Jackson.....	" .....	962	9 45
	Wm. D. Gibbs.....	Advertisement .....	963	80 00
	Wilbur Sample .....	Steam fitting .....	964	46 50
	H. C. Nidy.....	Wiring .....	965	4 62
	A. F. Smith.....	Brickmason .....	966	2 25
	F. C. Clark.....	Office supplies .....	967	95
	M. H. Barlow.....	Assistance .....	968	5 23
	B. B. Wells.....	Assistance .....	969	5 23
	J. G. Sterling.....	Assistance .....	970	2 33
	Thos. A. Panter.....	Janitor labor .....	971	22 05
	O. I. Dick.....	Student labor .....	972	6 75
	W. R. Lazenby.....	Laboratory supplies ..		
	Samuel C. Derby.....	Expenses .....	974	6 60
	C. C. Poindexter.....	Labor .....	975	6 50
	E. G. Bailey.....	Labor .....	976	7 43
	F. C. Long.....	Guide service .....	977	8 75
	Fred O. Snyder.....	Guide service .....	978	7 50
	J. H. Conklin.....	Insect boxes .....	979	18 00
	F. J. Boynton.....	Campus work .....	980	2 37
	E. T. Clapp.....	" " .....	981	3 09
	C. H. Case.....	" " .....	982	1 81
	E. L. Bowser.....	" " .....	983	2 31
	J. C. Perry.....	" " .....	984	2 32
	J. C. West.....	" " .....	985	2 28

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Nov. 13	P. C. Zollinger.....	Campus work .....	986	\$1 16
	E. L. Orndorff.....	Guide service .....	987	4 75
	Roy Thompson .....	" " .....	988	6 62
	J. A. Stiver.....	" " .....	989	2 75
	Geo. F. Pease.....	" " .....	990	2 50
	J. R. Smith.....	Expenses .....	991	6 60
	Mildred Waters .....	Typewriter ribbon ....	992	75
	W. O. Thompson .....	Expenses .....	993	6 89
	Benj. Lebay .....	Labor .....	994	40
	W. C. Smith.....	Law library work ....	995	13 60
	Mason Snow .....	Law library work ....	996	15 00
	Mabel Huddleson .....	Library work .....	997	4 63
	F. A. Bohn.....	" " .....	998	16 68
	Ida Marshall .....	" " .....	999	2 50
	J. W. Shaw.....	" " .....	1000	14 55
	Cap. City Mach. Wks.,	Supplies .....	1001	98 48
	Elec. Sup. and Const. Co	Electrical supplies ....	1002	31 21
	Wm. T. Magruder.....	Money advanced .....	1003	3 74
	Lutheran Book Concern.	Binding .....	1004	3 44
	James Penn.....	Hauling .....	1005	1 10
	J. S. Maclean.....	Sash .....	1006	1 75
	A. H. Smythe.....	Record ink .....	1007	2 00
	Lewis Fink.....	Papering .....	1008	26 33
	J. J. Gheen.....	Plastering .....	1009	11 75
	E. C. Kissinger.....	Sand .....	1010	1 49
	J. M. & W. Westwater..	Brackets .....	1011	1 00
	Vogelgesang Furnace Co	Repairing furnaces ....	1012	6 70
	Ohio Furniture Co....	Tile flooring .....	1013	71 75
	Seraphim Bl'k Book Co.	Binding reports.....	1014	2 85
	J. Frank Ridenour.....	New-era files .....	1015	1 25
	Lawrence Press Co....	Record books .....	1016	30 00
	Am. Dist. Tel. Co.....	Night watch boxes ....	1017	27 00
	Domestic Laundry.....	Washing towels .....	1018	3 20
	James Penn.....	Hauling .....	1019	10 25
	P. F. Yoerger.....	Painting .....	1020	15 50
	Penna. Fuel Co.....	Hauling coke .....	1021	9 70
	Kimball & Matthews...	Photo supplies .....	1022	1 30
	Shilling Foundry Co....	Casting .....	1023	1 08
	Reynolds Bros.....	Files .....	1024	15 19
	Kauffman Lattimer Co.	Drugs and sundries ....	1025	193 33
	R. W. Funk.....	Labor .....	1026	31 58
	Murray City Coal Co.	Coal .....	1027	712 79
	Press-Post Printing Co.	Advertisement .....	1028	15 25
	Oscar S. Lear.....	Stencil paper .....	1029	1 75
	The H. Cole Co.....	Supplies .....	1030	2 40
	Harrington & Nonnen-			
	macher .....	Clock oil .....	1031	75
	Citizen Publishing Co.	Advertisement .....	1032	12 00
	Ben D. Potts.....	Sink and weights .....	1033	3 44
	L. S. Wells.....	Maps .....	1034	21 00
	S. M. Dickerson & Son.	Hauling manure .....	1035	12 50
	N. C. Hager.....	Groceries .....	1036	39 47
	The M. C. Lilley & Co.	Supplies .....	1037	1 80
	The H. Mithoff & Co..	Vise .....	1038	6 50
	A. S. W. Huffman.....	White enamel .....	1039	3 14
	Deering Harvester Co..	Repairs .....	1040	24 57
	Samuel Butler & Co....	Gluten meal .....	1041	100 00
	Standard Oil Co.....	Oil .....	1042	8 50
	Acme Paving Co.....	Cement .....	1043	1 25
	J. C. Smith & Co.....	Stamps .....	1044	75

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Nov. 13	Taylor, Williams & Co.	Coal .....	1045	\$93 41
	The Phagocyte.....	Advertisement .....	1046	30 10
	The Cols. Brass Co....	Rod and nuts .....	1047	1 10
	Spahr & Glenn.....	Printing .....	1048	9 00
	The Columbus Gas Co..	Coke .....	1049	7 35
	The David C. Beggs Co.	Rugs and decoration ..	1050	178 00
	Kilbourne & Jacobs Mfg Co .....	Cart and barrow .....	1051	9 25
	Blackwood, Green & Co.	Hardware .....	1052	51 34
24	E. E. Nobles.....	November salary .....	1053	30 00
13	Burkett & Kimble.....	Oats .....	1054	14 87
	Erner & Hopkins.....	Electrical supplies .....	1055	41 23
	Nitschke Bros.....	Printing and paper .....	1056	24 00
	George S. Beall.....	Dry goods and notions ..	1057	16 58
	The Tracy-Wells Co....	Supplies .....	1058	32 75
	McClelland & Co.....	Supplies .....	1059	14 51
	C. H. Woodruff.....	Desks at chemical lab..	1060	69 86
	Columbus Supply Co...	Supplies .....	1061	48 75
	Columbus Mine and Mine Supply Co.....	Supplies .....	1062	21 51
	Franklin Toilet Supply Co .....	Towel service .....	1063	48 44
	Champlin Printing Co..	Printing .....	1064	188 43
	Central Ohio Paper Co.	Paper .....	1065	20 25
	Engelke & Bigelow ....	Freight and cartage ..	1066	103 53
	Logan McCormick.....	Picture frames .....	1067	3 65
	Fred J. Heer.....	Paper and printing ..	1068	145 75
	Hann & Adair.....	Printing .....	1069	58 54
	Schoedinger, Fearn & Co	Hardware .....	1070	4 28
	Z. L. White & Co.....	Dry goods and rods ..	1071	3 10
	Chas. J. Palmer.....	Repairs and charcoal ..	1072	39 38
	J. S. Abbott & Co.....	Hardware .....	1073	15 38
	Tallmadge Hardware Co	Hardware .....	1074	54 33
	Kelton & Converse.....	Lumber .....	1075	348 02
	E. Doddington & Co....	Lumber .....	1076	176 18
	Ruggles-Gale Co.....	Office supplies .....	1077	40 20
	The Hanna Paint Mfg. Co .....	Paint, etc .....	1078	14 59
	Borger Bros. & Co.....	Boiler and repairs .....	1079	259 20
	J. J. Marvin.....	Mill work .....	1080	5 25
	McAllister, Mohler & Co	Desk, couches, etc ..	1081	96 50
	W. H. Anderson & Co.	Law books .....	1082	722 25
	The Architectural Rec- ord Co.....	Records .....	1083	15 50
	Bausch & Lomb Optical Co .....	Scientific apparatus ...	1084	87 97
	Rand, McNalley & Co..	Maps .....	1085	36 10
	Chicago Lab. Sup. and Scale Co.....	Laboratory supplies ...	1086	104 42
	General Electric Co....	Controller coils, etc....	1087	149 40
	Eimer & Amend.....	Apparatus .....	1088	22 80
	Library Bureau.....	Oak cabinet .....	1089	16 00
	Burrows Bros. & Co....	Books .....	1090	8 21
	Keasbey & Mattison Co.	Magnabestos .....	1091	74 53
	Westinghouse Electric & Mfg. Co.....	Controller .....	1092	162 00
	Western Electric Co....	Carbons .....	1093	5 90
	Electric Appliance Co..	Connectors .....	1094	3 00
	The L. S. Starrett Co..	Nipper and gauge.....	1095	4 50



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Nov. 13	The National Stockman and Farmer.....	Advertisement .....	1096	\$52 50
	Kaeuffel & Esser Co....	Drawing boards .....	1097	91 20
	The Cutaway Harrow Co	Harrow .....	1098	17 50
	Lily Weeks.....	Salary one week .....	1099	5 00
	Engineering News Publishing Co.....	Publications .....	1100	2 00
	De Laval Separator Co.	Bowlrings .....	1101	1 20
	Reliance Gauge Column Co .....	Water Column .....	1102	16 00
	The Shelby Electric Co.	Lamps .....	1103	122 70
	Murphy Iron Works....	Freight .....	1104	17 20
	Western Kieley Steam Spec. Co .....	Valve and regulator ..	1105	81 25
	Murdock Parlor Grate Co .....	Plate .....	1106	32 50
	Houghton, Mifflin & Co.	Book .....	1107	1 06
	W. B. Clarke & Co....	Book plate .....	1108	30 27
	Armstrong Bros Tool Co	Tools, etc .....	1109	16 30
	Nicholson File Co.....	Files .....	1110	34 13
	Jones & Laughlins.....	Steel .....	1111	21 20
	Brown & Sharpe Mfg. Co .....	Supplies .....	1112	21 33
	Heller Bros & Co.....	Tools, etc .....	1113	21 34
	Howe, Brown & Co....	Tools .....	1114	19 80
	The C. A. Strelinger Co	Tools .....	1115	2 50
	Clucas & Boddington Co	Bulbs, etc .....	1116	71 25
	W. & L. E. Gurley....	Instruments .....	1117	41 00
	T. S. & J. D. Negus....	Sextants .....	1118	100 00
	Sipe & Sigler.....	Electrical supplies ...	1119	34 59
	Edison Decorative and M. Lamp Dept.....	Battery .....	1120	7 28
	M. P. Street.....	Masonry .....	1121	155 25
	E. H. Sargent & Co....	Chemicals .....	1122	17 30
	Diebold Safe & Lock Co	Safe .....	1123	81 00
	Fenwick Paper Co.....	Paper .....	1124	2 20
	Baker & Co.....	Platinum foil .....	1125	48 30
	Am. Aristotype Co....	Paper .....	1126	18 75
	J. Carbutt.....	Plates .....	1127	78 35
	The Chicago Raw Hide Co .....	Belts .....	1128	3 90
	Holman & Maurer Mfg. Co .....	Thermometers .....	1129	36 75
	Buffalo Scale Co.....	Scales .....	1130	28 53
	Oil Well Supply Co....	Gauge .....	1131	26 25
	Philip Well.....	Printing labels .....	1132	1 59
	Ward's Nat. Science Establishment .....	Specimens .....	1133	112 00
	Seth Hayes.....	Labor .....	1134	6 23
	A. B. Davis.....	Boat repairs .....	1135	5 00
	O. Eggeling.....	Aquarium .....	1136	10 80
	Herman Haerlein .....	Landscape gardener ..	1137	190 20
	Thos. Meehan & Sons..	Trees, etc .....	1138	38 55
	The A. H. Andrews Co.	Hypoplate .....	1139	3 75
	Richmond Chair Co....	Chairs .....	1140	44 00
	The B. F. Goodrich Co..	Rubber mats .....	1141	10 17
	L. M. Underwood.....	Vol. 9 Memoirs .....	1142	3 00
	The Collier Engineer Co	Subscription M and M	1143	2 00
	K. C. Davis.....	Book .....	1144	1 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Nov. 13	Univ. of State of New York	Paleontology .....	1145	\$18 50
	D. Van Nostrand Co..	Book .....	1146	4 00
	R. W. Raymond.....	Binding transactions ..	1147	1 00
	Knauth, Nachod & Kuehne .....	Otto Harrassowitz acc't	1148	2 00
	Webb Stationery & Prtg. Co .....	Supplies .....	1149	15 40
	R. M. Rownd, P. M....	Stamped envelopes ....	1150	42 80
	M. Dresbach.....	Hospital supplies .....	1151	4 37
14	F. R. Kunkle.....	Department labor .....	1152	34 65
	Carl E. Steeb.....	November salary .....	1153	65 00
16	Mildred Waters.....	Sept. and Oct. salary ..	1154	14 20
	" " .....	Balance of salary .....	1155	10 80
17	W. E. Severn.....	Services in vet. hospit'l	1156	36 27
19	Lily Weeks.....	Salary 1 week .....	1157	5 00
24	C. H. Woodruff.....	November salary .....	1158	65 00
	Mildred Waters.....	" " .....	1159	20 00
	Mary W. Rice.....	" " .....	1160	25 00
	Dan E. Ball.....	" " .....	1161	30 00
12	John T. Mack.....	Expenses visiting east- ern institutions .....	1162	81 60
24	Thos. F. Hunt.....	November salary .....	1163	250 00
	Wm. D. Gibbs.....	" " .....	1164	160 00
	John W. Decker.....	" " .....	1165	140 00
	Frank Ruhlén.....	" " .....	1166	66 66
	H. A. Weber.....	" " .....	1167	225 00
	A. E. Vinson.....	" " .....	1168	85 00
	Geo. W. Knight.....	" " .....	1169	250 00
	A. H. Tuttle.....	" " .....	1170	90 00
	Chas. B. Sayre.....	" " .....	1171	25 00
	A. M. Bleile.....	" " .....	1172	225 00
	C. B. Morrey.....	" " .....	1173	110 00
	M. Dresbach.....	" " .....	1174	50 00
	H. C. Lord.....	" " .....	1175	200 00
	A. G. McCall.....	" " .....	1176	20 00
	W. A. Kellerman.....	" " .....	1177	225 00
	J. H. Schaffner.....	" " .....	1178	110 00
	Walter Fischer.....	" " .....	1179	25 00
	Harriet Burr.....	" " .....	1180	25 00
	F. K. Luke.....	" " .....	1181	50 00
	F. J. Tyler.....	" " .....	1182	25 00
	Wm. M. Pherson.....	" " .....	1183	225 00
	S. A. Norton.....	" " .....	1184	125 00
	W. E. Henderson.....	" " .....	1185	100 00
	H. C. Gore.....	" " .....	1186	60 00
	C. P. Linville.....	" " .....	1187	30 00
	W. L. Dubois.....	" " .....	1188	30 00
	C. H. Kimberly.....	" " .....	1189	30 00
	Harry Hance.....	" " .....	1190	10 00
	C. N. Brown.....	" " .....	1191	225 00
	C. E. Sherman.....	" " .....	1192	110 00
	Wm. L. Davies.....	" " .....	1193	50 00
	E. E. Harrold.....	" " .....	1194	85 00
	N. P. Oglesby.....	" " .....	1195	45 00
	Edward Orten, Jr.....	" " .....	1196	190 00
	S. V. Peppel.....	" " .....	1197	60 00
	Perla G. Bowman.....	" " .....	1198	140 00
	C. P. Souther.....	" " .....	1199	90 00
	J. N. Bradford.....	" " .....	1200	190 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Nov. 24	T. E. French.....	November salary .....	1201	\$110 00
	T. K. Lewis.....	" " .....	1202	80 00
	Silas Martin.....	" " .....	1203	100 00
	F. C. Clark.....	" " .....	1204	180 00
	S. F. Smyser.....	" " .....	1205	30 00
	F. M. Hamilton.....	" " .....	1206	80 00
	F. C. Caldwell.....	" " .....	1207	160 00
	S. S. Edmunds.....	" " .....	1208	60 00
	J. P. Covan.....	" " .....	1209	70 00
	A. C. Barrows.....	" " .....	1210	225 00
	J. R. Taylor.....	" " .....	1211	120 00
	W. H. Siebert.....	" " .....	1212	150 00
	C. S. Prosser.....	" " .....	1213	160 00
	J. A. Bownocker.....	" " .....	1214	140 00
	W. C. Mills.....	" " .....	1215	35 00
	E. A. Eggers.....	" " .....	1216	225 00
	C. W. Mesloh.....	" " .....	1217	130 00
	E. H. Moore.....	" " .....	1218	20 00
	J. R. Smith.....	" " .....	1219	225 00
	A. W. Hodgman.....	" " .....	1220	120 00
	W. S. Elden.....	" " .....	1221	80 00
	W. R. Lazenby.....	" " .....	1222	225 00
	H. C. Price.....	" " .....	1223	58 33
	F. E. Sanborn.....	" " .....	1224	200 00
	W. H. Renck.....	" " .....	1225	90 00
	W. A. Knight.....	" " .....	1226	110 00
	C. P. Crowe.....	" " .....	1227	85 00
	S. C. Derby.....	" " .....	1228	225 00
	W. F. Hunter.....	" " .....	1229	250 00
	J. H. Collins.....	" " .....	1230	20 00
	J. A. Shauck.....	" " .....	1231	17 50
	E. B. Kinkad.....	" " .....	1232	120 00
	W. H. Page.....	" " .....	1233	140 00
	E. O. Randall.....	" " .....	1234	70 00
	D. F. Pugh.....	" " .....	1235	95 00
	H. N. Townshend.....	" " .....	1236	55 00
	Olive Jones.....	" " .....	1237	135 00
	Gertrude Kellicott.....	" " .....	1238	55 00
	Maude Jeffrey.....	" " .....	1239	55 00
	Lucy Allen.....	" " .....	1240	55 00
	C. B. Guittard.....	" " .....	1241	55 00
	R. D. Bohannon.....	" " .....	1242	225 00
	Geo. W. McCoard.....	" " .....	1243	160 00
	C. L. Arnold.....	" " .....	1244	100 00
	K. D. Swartzell.....	" " .....	1245	100 00
	S. E. Rasor.....	" " .....	1246	70 00
	J. F. Travis.....	" " .....	1247	30 00
	W. E. Davis.....	" " .....	1248	15 00
	W. T. Magruder.....	" " .....	1249	225 00
	E. A. Hitchcock.....	" " .....	1250	165 00
	A. F. Hall.....	" " .....	1251	62 50
	E. G. Bailey.....	" " .....	1252	18 00
	Geo. W. Frost.....	" " .....	1253	30 00
	N. W. Lord.....	" " .....	1254	200 00
	E. E. Sommermeier.....	" " .....	1255	70 00
	Gustav Bruder.....	" " .....	1256	20 00
	F. A. Ray.....	" " .....	1257	200 00
	Geo. B. Kauffman.....	" " .....	1258	200 00
	W. A. Landacre.....	" " .....	1259	80 00
	W. H. Scott.....	" " .....	1260	225 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Nov. 24	Arthur E. Davies.....	November salary .....	1261	\$30 00
	C. P. Linhart.....	" " .....	1262	160 00
	Clara M. Berryman.....	" " .....	1263	75 00
	D. O. Huddleson.....	" " .....	1264	50 00
	B. F. Thomas.....	" " .....	1265	225 00
	J. E. Boyd.....	" " .....	1266	120 00
	F. E. Kester.....	" " .....	1267	80 00
	H. B. Brooks.....	" " .....	1268	20 00
	J. V. Denney.....	" " .....	1269	225 00
	W. L. Graves.....	" " .....	1270	100 00
	H. C. Allen.....	" " .....	1271	115 00
	Geo. H. McKnight.....	" " .....	1272	100 00
	W. E. Bohn.....	" " .....	1273	30 00
	B. L. Bowen.....	" " .....	1274	225 00
	C. A. Bruce.....	" " .....	1275	110 00
	J. P. Gordy.....	" " .....	1276	225 00
	R. T. Jones.....	" " .....	1277	20 00
	D. S. White.....	" " .....	1278	180 00
	C. B. Frederick.....	" " .....	1279	90 00
	O. V. Brumley.....	" " .....	1280	60 00
	Paul Fischer.....	" " .....	1281	180 00
	Herbert Osborn.....	" " .....	1282	225 00
	J. S. Hine.....	" " .....	1283	95 00
	F. L. Landacre.....	" " .....	1284	95 00
	E. D. Ball.....	" " .....	1285	30 00
	Alexis Cope.....	" " .....	1286	187 50
	K. H. Duncan.....	" " .....	1287	58 33
	E. D. Cockins.....	" " .....	1288	58 33
	John C. Ricketts.....	" " .....	1289	45 00
	James Kelley.....	" " .....	1290	30 00
	E. R. Hubler.....	" " .....	1291	25 00
	W. C. Weir.....	" " .....	1292	25 00
	Arthur Chantler.....	" " .....	1293	45 00
	Earl Conway.....	" " .....	1294	20 00
	G. A. Goodspeed.....	" " .....	1295	40 00
	J. H. Brown.....	" " .....	1296	25 00
	" " .....	" " .....	1297	15 00
	D. D. Geren.....	" " .....	1298	40 00
	T. E. Osborn.....	" " .....	1299	40 00
23	W. Whitestone.....	" " .....	1300	40 00
24	Harry Chantler.....	" " .....	1301	40 00
	W. Townsell.....	" " .....	1302	25 00
	G. C. Denny.....	" " .....	1303	40 00
	M. N. Cook.....	" " .....	1304	40 00
	Wm. Conklin.....	" " .....	1305	40 00
	J. C. Perry.....	" " .....	1306	12 50
	H. M. Templin.....	" " .....	1307	40 00
	W. C. McCracken.....	" " .....	1308	150 00
	C. M. Low.....	" " .....	1309	54 17
	Wm. Standley.....	" " .....	1310	50 00
	Benj. LeBay.....	" " .....	1311	50 00
	Thos. A. Boude.....	" " .....	1312	50 00
	W. H. Case.....	" " .....	1313	50 00
	Marion Peck.....	" " .....	1314	40 00
	Geo. R. Rose.....	" " .....	1315	65 00
	J. A. Garretson.....	" " .....	1316	37 50
	N. O. Ford.....	" " .....	1317	25 00
23	R. A. Abbott.....	" " .....	1318	30 00
21	R. M. Rownd, P. M....	Postage stamps.....	1319	10 00
26	Lily Weeks.....	Salary one week ....	1320	5 00





## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900 Dec. 6	W. C. Smith.....	Work in library.....	1374	\$8 70
	Mae Schaff.....	" ".....	1375	2 25
	F. C. Kettler.....	Labor in department..	1376	4 20
	E. Wallace.....	" ".....	1377	10 56
	T. A. Panter.....	Janitor work.....	1378	15 00
	M. A. Prange.....	Department labor.....	1379	9 15
	F. R. Kunkle.....	" ".....	1380	17 40
	W. G. Johnson.....	Labor.....	1381	1 69
	F. C. Long.....	Guide service.....	1382	7 75
	Jos. A. Stiver.....	" ".....	1383	2 75
	E. L. Orndorff.....	" ".....	1384	2 00
	Roy Thompson.....	" ".....	1385	4 13
	Geo. F. Pease.....	" ".....	1386	1 88
	Harry L. Doud.....	Work in law library...	1387	10 00
	W. F. Hunter.....	Expenses to east.....	1388	80 40
	E. A. Eggers.....	Express paid.....	1389	1 00
	Wilbur Sample.....	Helping steam-fitter..	1390	18 00
	J. H. Conklin.....	Pamphlet cases.....	1391	4 00
	F. E. Fleischer.....	Campus work.....	1392	3 75
	F. H. Haskett.....	Labor in department..	1393	9 60
	Columbus Supply Co....	Supplies.....	1394	38 56
	Wm. Burdell, Jr.....	Supplies and repairs...	1395	48 85
	Franklin Toilet Supply Co.....	Towel service.....	1396	42 04
	McClelland & Co.....	Office supplies.....	1397	6 07
	H. Braun, Sons & Co..	Drugs and sundries...	1398	16 88
	Erner & Hopkins Co....	Electrical supplies....	1399	41 65
	Nitschke Bros.....	Printing and paper....	1400	23 35
	Tallmadge Hardware Co	Hardware.....	1402	33 85
	Central Ohio Paper Co..	Paper.....	1403	3 53
	P. Hayden Saddlery Hardware Co.....	Stoves, grate and iron.	1401	94 79
	The Ruggles-Gale Co..	Office supplies.....	1404	5 05
	Schoedinger, Fearn & Co	Hardware.....	1405	3 59
	Spahr & Glenn.....	Printing postals, etc...	1406	117 35
	Blackwood, Green & Co	Hardware.....	1407	1 35
	J. S. Abbott & Co.....	" ".....	1408	73 06
	Champlin Printing Co..	Printing.....	1409	87 05
	Oscar S. Lear.....	Stencil paper, etc.....	1410	3 60
	Columbus Mine and M. Sup. Co.....	Gum valves etc.....	1411	8 60
	Kelton & Converse....	Lumber, etc.....	1412	9 47
	Cap. City Machine W'ks	Repairs, waste, etc....	1413	52 55
	The H. Cole Co.....	Blue print paper.....	1414	1 00
	J. H. & F. A. Sells....	Repairing belt.....	1415	1 25
	Ben D. Potts.....	Supplies.....	1416	8 33
	Elec. Supply & Const Co	Electrical supplies....	1417	1 60
	Hann & Adair.....	Envelopes.....	1418	2 95
	Taylor, Williams & Co.	Coal.....	1419	62 23
	Engelke & Bigelow....	Freight and cartage...	1420	24 13
	Burkett & Kimble.....	Feed, etc.....	1421	14 60
	Elizabeth Kaiser.....	2 buckets.....	1422	50
	Dunn, Taft & Co.....	Muslin.....	1423	3 64
	Henry Goldsmith.....	Drum, music, etc.....	1424	13 50
	McDonalds & Steube...	Blackening daubers. etc..	1425	4 00
	Bucher Engraving Co....	Half tones.....	1426	6 90
	Payne-McDonald Hard- ware Co.....	Hardware.....	1427	14 91
	I. H. Miller.....	Notarial work.....	1428	1 20
	The D. C. Aaron Pen Co	1 gross pens.....	1429	1 50

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900 Dec. 6	Kilbourne & Jacobs Mfg. Co .....	Barrows .....	1430	\$20 00
	Green, Joyce & Co.....	Crash .....	1431	2 00
	Andrew Spittal.....	Instruments .....	1432	9 00
	Charles Ransower .....	Buckets .....	1433	1 50
	Geo. D. Cross L'mber Co	Lumber .....	1434	159 83
	Z. L. White & Co.....	Repairing shades.....	1435	5 45
	Kauffman-Lattimer Co..	Drugs and sundries....	1436	94 03
	Murray City Coal Co....	Coal .....	1437	578 86
	Chas. J. Paimer.....	Labor and material....	1438	2 70
	The People's Store.....	Cushion .....	1439	9 00
	David C. Beggs Co.....	Mats, etc.....	1440	6 00
	H. J. Detmers.....	Syringes .....	1441	9 00
	J. J. Marvin.....	Cutting lumber.....	1442	19 50
	Seraphim Bl'k Book Co	Binding .....	1443	77 65
	W. J. Davidson.....	Sand .....	1444	85
	The Kinkade & Liggett Co .....	Iron and guard .....	1445	26 96
	J. Ohlen & Sons Saw Mfg. Co.....	Steel .....	1446	5 60
	Von Gerichten Art Glass Co .....	Glass .....	1447	3 00
	Shilling Foundry Co....	Moulding sand.....	1448	3 31
	Columbus Bank Note Co	Letter heads.....	1449	15 00
	Domestic Laundry.....	Washing towels .....	1450	2 07
	Standard Oil Co.....	Oil .....	1451	26 00
	Krauss, Butler & Ben- ham Co.....	Shade .....	1452	14 50
	The Rood Lumber Co..	Boxes .....	1453	12 00
	The E. B. Lanman Co..	Nuts .....	1454	1 20
	Columbus Lab. Pulv. Co	Cover .....	1455	3 75
	The Acme Paving Co..	Cement .....	1456	2 25
	R. M. Rownd, P. M....	Stamps .....	1457	21 00
	Columbus Gas Co.....	November gas.....	1458	178 80
	Cent. Union Tel. Co....	Telephone rental, No. 8207 .....	1459	30 00
	Columbus Citizens' Tel- ephone Co.....	October quarter rental.	1460	90 00
	Druggists' Circular.....	Circular .....	1461	5 00
	George Wahr.....	Books .....	1462	4 00
	Wm. H. Pierce & Co....	Lantern slides.....	1463	16 40
	Bausch & Lomb Optical Co .....	Microscope, etc.....	1464	90 00
	Knauth, Nachod & Kuehne .....	Account of Otto Har- raswitz .....	1465	1 67
	Home Science Pub Co..	Home sanitation.....	1466	75
	Am. Archt. and Building News Co.....	Edition 1897-1899....	1467	75 00
	Keasbey & Mattison Co.	Magnesia coverings....	1468	8 13
	Crosby Steam Gauge and Valve Co.....	Gauges .....	1469	5 79
	Oxford Univ. Press....	"Rohilla wars".....	1470	2 63
	Thomas B. Mosher.....	1 set Jefferies.....	1471	2 25
	E. J. Stokes Machine Co	Tablet machine.....	1472	25 20
	L. H. Sargent & Co....	Clamps, charcoal, etc.	1473	38 05
	J. Bishop & Co.....	Remaking crucibles, etc .....	1474	11 21
	The Zanesville Stone- ware Co.....	B. B. guards.....	1475	7 50

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900 Dec. 6	Merck & Co.....	Publications .....	1476	\$3 80
	Standard Chain Co.....	Steel and iron.....	1477	29 18
	James G. Biddle.....	Instruments, etc.....	1478	583 32
	Library Bureau.....	Cards, folders, etc....	1479	7 81
	Chas. Englehard.....	Bill of W. C. Herdens	1480	40 00
	John Chatillon & Sons..	Balances .....	1481	1 70
	Coles, E. S. & A. Co..	Test bars, samples, etc .....	1482	12 00
	Cumulative Index Co...	Cumulative index....	1483	10 00
	Keuffel & Esser Co....	Protractors .....	1484	43 99
	Ives Kromscap Co.....	Kromscop .....	1485	50 75
	Elmer G. Willyoung....	P. B. strip .....	1486	1 60
	H. A. Blakeslee.....	Milk tickets.....	1487	15 00
	A. H. Barber Mfg. Co.	Supplies .....	1488	4 83
	John W. Hills.....	Lantern slides.....	1489	35 00
	The Ohio Farmer.....	Adv. agr. dep't.....	1490	94 50
	W. D. Hoard Co.....	Advertisements .....	1491	25 00
	The Burrows Bros. Co.	History .....	1492	5 97
	Edward Thompson Co..	Encyclopedia law ....	1493	12 00
	Edwin A. Barber.....	American glassware...	1494	1 00
	W. H. Anderson & Co..	Reports .....	1495	15 00
	Standard Eng. Co.....	Drawings, etc.....	1496	1 00
	W. S. Casterlin.....	Cast steel and tool making .....	1497	2 00
	The Billings & Spencer Co .....	Wrenches and ring sets .....	1498	2 71
	Cincinnati Screw & Tap Co .....	Screws .....	1499	26 46
	The Finished Steel Co..	Steel .....	1500	24 65
	Union Mfg. Co.....	Chuck, etc.....	1501	20 55
	Wells Bros. & Co.....	Oil, etc.....	1502	1 96
	W. A. Robbins, Ex'r....	Detroit safe.....	1503	50 00
	Geo. T. Johnson & Co..	Toilet paper.....	1504	41 25
	J. B. Colt Co.....	Lantern .....	1505	30 00
	Strong, Carlisle & Ham- mond Co.....	C. surface-plate.....	1506	17 00
	Warren Mfg. Co.....	Pulley cover.....	1507	12 00
	Cinti. Soc. Nat. History.	Bulletins .....	1508	9 25
	Akron Elect. Mfg. Co..	Generator .....	1509	126 00
	Electric Appliance Co..	Electric supplies.....	1510	7 80
	Montgomery, Ward & Co	Supplies .....	1511	28 49
	G. E. Steckert.....	Books .....	1512	148 16
	F. O. Snyder.....	Extra work in library.	1513	2 75
8	Arthur Chantler.....	1 week salary.....	1514	11 25
	Earl Conway.....	Salary in full to date..	1515	5 00
	Ohio National Bank....	Money order to Felix L. Davies.....	1516	9 90
	Johnson Lewis.....	Carpenter work.....	1517	7 50
10	Lily Weeks.....	1 week salary.....	1518	5 00
17	Danforth E. Ball.....	December salary.....	1519	30 00
	Mildred Waters.....	" " .....	1520	20 00
	C. H. Woodruff.....	" " .....	1521	65 00
	Mary W. Rice.....	" " .....	1522	25 00
	Thos. F. Hunt.....	" " .....	1523	250 00
	W. D. Gibbs.....	" " .....	1524	160 00
	Jno. W. Decker.....	" " .....	1525	140 00
	Frank Ruhlen.....	" " .....	1526	66 66
	H. A. Weber.....	" " .....	1527	225 00
	A. E. Vinson.....	" " .....	1528	85 00



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Dec. 17	Geo. W. Knight.....	December salary.....	1529	\$250 00
	A. H. Tuttle.....	" ".....	1530	90 00
	Chas. B. Sayre.....	" ".....	1531	25 00
	A. M. Bleile.....	" ".....	1532	225 00
	C. B. Morrey.....	" ".....	1533	110 00
	M. Dresbach.....	" ".....	1534	50 00
	H. C. Lord.....	" ".....	1535	200 00
	A. G. McCall.....	" ".....	1536	20 00
	W. A. Kellerman.....	" ".....	1537	225 00
	J. H. Schaffner.....	" ".....	1538	110 00
	Walter Fischer.....	" ".....	1539	25 00
	Harriett Burr.....	" ".....	1540	25 00
	F. K. Luke.....	" ".....	1541	50 00
	F. J. Tyler.....	" ".....	1542	25 00
	Wm. McPherson.....	" ".....	1543	225 00
	S. A. Norton.....	" ".....	1544	125 00
	W. E. Henderson.....	" ".....	1545	100 00
	H. C. Gore.....	" ".....	1546	60 00
	C. P. Linville.....	" ".....	1547	30 00
	W. L. Dubois.....	" ".....	1548	30 00
	C. H. Kimberly.....	" ".....	1549	30 00
	Harry Hance.....	" ".....	1550	10 00
	C. N. Brown.....	" ".....	1551	225 00
	C. E. Sherman.....	" ".....	1552	110 00
	Wm. L. Davies.....	" ".....	1553	50 00
	E. E. Harrold.....	" ".....	1554	85 00
	N. P. Oglesby.....	" ".....	1555	45 00
	Edward Orton, Jr.....	" ".....	1556	190 00
	S. V. Peppel.....	" ".....	1557	60 00
	P. G. Bowman.....	" ".....	1558	140 00
	C. P. Souther.....	" ".....	1559	90 00
	J. N. Bradford.....	" ".....	1560	190 00
	Thos. E. French.....	" ".....	1561	110 00
	T. K. Lewis.....	" ".....	1562	80 00
	Silas Martin.....	" ".....	1563	100 00
	E. E. Nobles.....	" ".....	1564	30 00
	F. C. Clark.....	" ".....	1565	180 00
	S. F. Smyser.....	" ".....	1566	30 00
	J. P. Gordy.....	" ".....	1567	225 00
	F. M. Hamilton.....	" ".....	1568	80 00
	F. C. Caldwell.....	" ".....	1569	160 00
	S. S. Edmunds.....	" ".....	1570	60 00
	J. P. Covan.....	" ".....	1571	70 00
	A. C. Barrows.....	" ".....	1572	225 00
	H. C. Nidy.....	" ".....	1573	12 50
	J. R. Taylor.....	" ".....	1574	120 00
	W. H. Siebert.....	" ".....	1575	150 00
	Chas. S. Prosser.....	" ".....	1576	160 00
	John A. Bownocker.....	" ".....	1577	140 00
	W. C. Mills.....	" ".....	1578	35 00
	E. A. Eggers.....	" ".....	1579	225 00
	C. W. Mesloh.....	" ".....	1580	130 00
	E. H. Moore.....	" ".....	1581	20 00
	J. R. Smith.....	" ".....	1582	225 00
	A. W. Hodgman.....	" ".....	1583	120 00
	W. S. Elden.....	" ".....	1584	80 00
	W. R. Lazenby.....	" ".....	1585	225 00
	Homer C. Price.....	" ".....	1586	58 33
	F. E. Sanborn.....	" ".....	1587	200 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Dec. 17	W. H. Renck.....	December salary .....	1588	\$90 00
	W. A. Knight.....	" " .....	1589	110 00
	C. P. Crowe.....	" " .....	1590	85 00
	S. C. Derby.....	" " .....	1591	225 00
	Wm. F. Hunter.....	" " .....	1592	250 00
	J. H. Collins.....	" " .....	1593	20 00
	J. A. Shauck.....	" " .....	1594	17 50
	E. B. Kinkad.....	" " .....	1595	120 00
	W. H. Page.....	" " .....	1596	140 00
	E. O. Randall.....	" " .....	1597	70 00
	D. F. Pugh.....	" " .....	1598	95 00
	Olive Jones.....	" " .....	1599	135 00
	Harriett N. Townshend.	" " .....	1600	55 00
	Gertrude Kellicott.....	" " .....	1601	55 00
	Maude Jeffrey.....	" " .....	1602	55 00
	Lucy Allen.....	" " .....	1603	55 00
	C. B. Guittard.....	" " .....	1604	55 00
	R. D. Bohannon.....	" " .....	1605	225 00
	G. W. McCoard.....	" " .....	1606	160 00
	C. L. Arnold.....	" " .....	1607	100 00
	K. D. Swartzell.....	" " .....	1608	100 00
	S. E. Rasor.....	" " .....	1609	70 00
	J. F. Travis.....	" " .....	1610	30 00
	W. E. Davis.....	" " .....	1611	15 00
	Wm. T. Magruder.....	" " .....	1612	225 00
	E. A. Hitchcock.....	" " .....	1613	165 00
	A. F. Hall.....	" " .....	1614	62 50
	E. G. Bailey.....	" " .....	1615	18 00
	Geo. W. Frost.....	" " .....	1616	30 00
	N. W. Lord.....	" " .....	1617	200 00
	E. E. Sommermeier.....	" " .....	1618	75 00
	Gustav Bruder.....	" " .....	1619	20 00
	Frank A. Ray.....	" " .....	1620	200 00
	Geo. B. Kauffman.....	" " .....	1621	200 00
	W. A. Landacre.....	" " .....	1622	80 00
	W. H. Scott.....	" " .....	1623	225 00
	A. E. Davies.....	" " .....	1624	30 00
	C. P. Linhart.....	" " .....	1625	160 00
	Clara M. Berryman .....	" " .....	1626	75 00
	D. C. Huddleson.....	" " .....	1627	50 00
	B. F. Thomas.....	" " .....	1628	225 00
	J. E. Boyd.....	" " .....	1629	120 00
	F. E. Kester.....	" " .....	1630	80 00
	H. B. Brooks.....	" " .....	1631	20 00
	J. V. Denney.....	" " .....	1632	225 00
	W. L. Graves.....	" " .....	1633	100 00
	H. C. Allen.....	" " .....	1634	115 00
	Geo. H. McKnight.....	" " .....	1635	100 00
	W. E. Bohn.....	" " .....	1636	30 00
	B. L. Bowen.....	" " .....	1637	225 00
	C. A. Bruce.....	" " .....	1638	110 00
	R. T. Jones.....	" " .....	1639	20 00
	D. S. White.....	" " .....	1640	180 00
	C. B. Frederick.....	" " .....	1641	90 00
	O. V. Brumley.....	" " .....	1642	60 00
	Paul Fischer.....	" " .....	1643	180 00
	Herbert Osborn.....	" " .....	1644	225 00
	J. S. Hine.....	" " .....	1645	95 00
	F. L. Landacre.....	" " .....	1646	95 00
	E. D. Ball.....	" " .....	1647	30 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Dec. 17	W. O. Thompson.....	December salary .....	1648	\$416 67
	Alexis Cope.....	" " .....	1649	187 50
	K. H. Duncan.....	" " .....	1650	58 33
	E. D. Cockins.....	" " .....	1651	58 33
13	C. E. Steeb.....	" " .....	1652	65 00
	Jno. C. Ricketts.....	" " .....	1653	45 00
	James Kelley.....	" " .....	1654	30 00
	Thos. E. Osborne.....	" " .....	1655	40 00
	Edith R. Hubler.....	" " .....	1656	25 00
	W. C. Weir.....	" " .....	1657	25 00
	G. A. Goodspeed.....	" " .....	1658	40 00
	J. H. Brown.....	" " .....	1659	25 00
	" .....	" " .....	1660	15 00
	D. D. Geren.....	" " .....	1661	40 00
	W. Whitestone .....	" " .....	1662	40 00
	Harry Chandler.....	" " .....	1663	40 00
	W. Townsell.....	" " .....	1664	25 00
	G. C. Denny.....	" " .....	1665	40 00
	M. N. Cook.....	" " .....	1666	40 00
	Wm. Conklin.....	" " .....	1667	40 00
	J. C. Perry.....	" " .....	1668	12 50
	H. M. Templin.....	" " .....	1669	40 00
	W. C. McCracken.....	" " .....	1670	150 00
	C. M. Low.....	" " .....	1671	54 17
	W. A. Standley.....	" " .....	1672	50 00
	Benj. LeBay.....	" " .....	1673	50 00
	Thos. A. Boude.....	" " .....	1674	50 00
	W. H. Case.....	" " .....	1675	50 00
	Marion Peck .....	" " .....	1676	40 00
	George Rose .....	" " .....	1677	65 00
	Joseph A. Garretson...	" " .....	1678	37 50
	C. L. E. Moore.....	" " .....	1679	15 00
	N. O. Ford.....	" " .....	1680	25 00
	R. A. Abbott.....	" " .....	1681	30 00
	Sarah Barrows.....	" " .....	1682	15 00
14	Lily Weeks.....	Janitress work .....	1683	5 00
15	W. E. Severn.....	Services as clerk.....	1684	61 20
17	John T. Mack.....	Expense meetings .....	1685	11 00
	Kate Shanahan.....	Laundry demonstra- tion .....	1686	30 00
	F. O. Snyder.....	Guide service .....	1687	1 00
	E. L. Orndorff.....	" " .....	1688	1 00
17	F. O. Snyder.....	" " .....	1689	2 00
	Jos. A. Stiver.....	" " .....	1690	3 88
	F. C. Long.....	" " .....	1691	2 25
	Geo. F. Pease.....	" " .....	1692	1 63
	Roy W. Thompson.....	" " .....	1693	1 50
	Helen Powell.....	Clerical service .....	1694	13 10
	M. J. Kellenberger.....	Work in department domestic economy ..	1695	20 00
19	R. M. Rownd, P. M....	Postage deposit .....	1696	10 00
31	J. McLain Smith.....	Expenses at board meetings .....	1697	13 90
27	T. J. Godfrey.....	Expenses at meeting Dec. 26, 1900 .....	1698	9 25
31	Alexis Cope.....	Paid to L. C. Ferrell. supt. of documents ..	1699	52 34
	Edward Vorhees, Sec'y and Treas.....	Membership in Assn. Am. Agr. Colleges..	1700	10 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
Jan. 5	R. M. Rownd, P. M. ..	Postage stamps .....	1701	\$15 00
7	C. C. Poindexter .....	Botany Dept. labor ....	1702	12 75
	R. P. Sosman .....	Laboratory assistance ..	1703	18 45
	M. W. Mumma .....	" " ..	1704	4 50
8	Wilbur Sample .....	Cleaning boiler .....	1705	46 50
	Fred Brewer .....	" " ..	1706	34 50
7	Wm. Garrett .....	Wheeling coal .....	1707	38 25
	Harry Lynn .....	Wiring .....	1708	14 60
	W. C. Mills .....	Dept. supplies .....	1709	5 98
	Lilly Weeks .....	Week salary .....	1710	5 00
	M. Dresbach .....	Feed .....	1711	2 64
	E. G. Bailey .....	Work in dept .....	1712	8 45
	Max W. Morse .....	Museum work .....	1713	5 85
	Wm. T. Magruder .....	File and paper .....	1714	1 45
	Arthur Geren .....	Paper .....	1715	75
	E. L. Metzger .....	Straw .....	1716	5 00
	Dale M. Boothman .....	Patternmaking .....	1717	3 00
	Carl C. Wilcox .....	" " ..	1718	3 13
	E. Pierce .....	Student labor .....	1719	5 00
	H. E. Williams .....	" " ..	1720	7 20
	T. A. Panter .....	" " ..	1721	3 90
11	E. Wallace .....	" " ..	1722	6 00
7	M. N. Prange .....	" " ..	1723	2 55
	E. F. Elliott .....	" " ..	1724	3 32
	W. G. Johnson .....	" " ..	1725	2 25
	W. R. Judson .....	" " ..	1726	2 00
	F. R. Kunkle .....	" " ..	1727	9 80
8	Col's St. Ry. Co. ....	Street car tickets ....	1728	5 00
	Columbus Gas Co. ....	December gas bill ....	1729	167 18
10	C. E. Steeb .....	January salary .....	1730	65 00
	A. F. Wilcox .....	Bal. on shed contract ..	1731	300 00
7	J. W. Shaw .....	Work in library .....	1732	8 00
	Mabel S. Huddleson ...	" " ..	1733	5 25
	Mason Snow .....	" " ..	1734	7 35
	W. E. Smth .....	" " ..	1735	7 58
	F. A. Bohn .....	" " ..	1736	7 50
	R. W. Funk .....	Work in storeroom ....	1737	16 13
	F. E. Fleischer .....	Labor on campus .....	1738	4 25
	Laura L. Hill .....	Clerical work .....	1739	15 00
	Thomas F. Hunt .....	Expenses to New Ha-		
		ven .....	1740	60 00
11	A. D. Morley .....	Carpenter work .....	1741	40 05
	W. Morelan .....	" " ..	1742	16 80
	Marion Warner .....	" " ..	1743	15 30
	J. H. Randall .....	" " ..	1744	25 80
	J. H. Randall .....	" " ..	1745	21 34
14	Lily Weeks .....	Week salary .....	1746	5 00
15	Thos. K. Lewis .....	Drawing models .....	1747	4 40
17	C. E. Jackson .....	January salary .....	1748	20 00
18	W. S. Elden .....	" " ..	1749	80 00
21	Edith R. Hubler .....	" " ..	1750	25 00
26	Mildred Waters .....	" " ..	1751	25 00
	Thos. F. Hunt .....	" " ..	1752	250 00
	W. D. Gibbs .....	" " ..	1753	160 00
	Jno. W. Decker .....	" " ..	1754	140 00
	Frank Ruhlen .....	" " ..	1755	66 00
	B. B. Herrick .....	" " ..	1756	50 00
21	H. A. Weber .....	" " ..	1757	225 00
	A. E. Vinson .....	" " ..	1758	85 00
	Geo. W. Knight .....	" " ..	1759	250 00



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
Jan. 21	A. H. Tuttle.....	January salary .....	1760	\$90 00
	Chas. B. Sayre .....	" " .....	1761	25 00
	A. M. Bleile .....	" " .....	1762	225 00
	C. B. Morrey .....	" " .....	1763	110 00
	M. Dresbach .....	" " .....	1764	50 00
	H. C. Lord .....	" " .....	1765	200 00
	A. G. McCall .....	" " .....	1766	20 00
	W. A. Kellerman .....	" " .....	1767	225 00
	J. H. Schaffner .....	" " .....	1768	110 00
	Walter Fischer .....	" " .....	1769	25 00
	Harriett Burr .....	" " .....	1770	25 00
	F. K. Luke .....	" " .....	1771	50 00
	F. J. Tyler .....	" " .....	1772	25 00
	Wm. McPherson .....	" " .....	1773	225 00
	W. O. Thompson .....	" " .....	1774	416 67
	S. A. Norton .....	" " .....	1775	125 00
	W. E. Henderson .....	" " .....	1776	100 00
	H. C. Gore .....	" " .....	1777	60 00
	C. P. Linville .....	" " .....	1778	30 00
	W. L. Dubois .....	" " .....	1779	30 00
	C. H. Kimberly .....	" " .....	1780	30 00
	Harry Hance .....	" " .....	1781	10 00
26	C. N. Brown .....	" " .....	1782	225 00
	C. E. Sherman .....	" " .....	1783	110 00
	Wm. L. Davis .....	" " .....	1784	50 00
	E. E. Harrold .....	" " .....	1785	85 00
	N. P. Oglesby .....	" " .....	1786	45 00
	Edw. Orton, Jr. ....	" " .....	1787	190 00
	S. V. Peppel .....	" " .....	1788	60 00
	Perla G. Bowman .....	" " .....	1789	140 00
	Cornelia P. Souther ..	" " .....	1790	90 00
	J. N. Bradford .....	" " .....	1791	190 00
	Thos. E. French .....	" " .....	1792	110 00
	Thos. K. Lewis .....	" " .....	1793	80 00
	Silas Martin .....	" " .....	1794	100 00
	E. E. Nobles .....	" " .....	1795	30 00
	F. C. Clark .....	" " .....	1796	180 00
	S. F. Smyser .....	" " .....	1797	30 00
	J. P. Gordy .....	" " .....	1798	225 00
	F. M. Hamilton .....	" " .....	1799	80 00
	F. C. Caldwell .....	" " .....	1800	160 00
	S. S. Edmunds .....	" " .....	1801	60 00
	J. P. Covan .....	" " .....	1802	70 00
	H. C. Nidy .....	" " .....	1803	12 50
	A. C. Barrows .....	" " .....	1804	225 00
	J. R. Taylor .....	" " .....	1805	120 00
	W. H. Siebert .....	" " .....	1806	150 00
	C. S. Prosser .....	" " .....	1807	160 00
	Jno. A. Bownocker.....	" " .....	1808	140 00
	W. C. Mills .....	" " .....	1809	35 00
	E. A. Eggers .....	" " .....	1810	225 00
	C. W. Mesloh .....	" " .....	1811	130 00
	E. H. Moore .....	" " .....	1812	20 00
	J. R. Smith .....	" " .....	1813	225 00
	A. W. Hodgman .....	" " .....	1814	120 00
	W. R. Lazenby.....	" " .....	1815	225 00
	H. C. Price .....	" " .....	1816	58 33
	F. E. Sanborn.....	" " .....	1817	200 00
	W. H. Renck .....	" " .....	1818	90 00
	W. A. Knight .....	" " .....	1819	110 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
Jan. 26	C. P. Crowe.....	January salary .....	1820	\$85 00
	S. C. Derby .....	" " .....	1821	225 00
	W. F. Hunter .....	" " .....	1822	250 00
	J. H. Collins .....	" " .....	1823	20 00
	J. A. Shauck .....	" " .....	1824	17 50
	E. B. Kinkad .....	" " .....	1825	120 00
	W. H. Page .....	" " .....	1826	140 00
	E. O. Randall .....	" " .....	1827	70 00
	D. F. Pugh .....	" " .....	1828	95 00
	Olive Jones .....	" " .....	1829	135 00
	Harriett N. Townshend .....	" " .....	1830	55 00
	Gertrude Kellicott .....	" " .....	1831	55 00
	Maude Jeffrey .....	" " .....	1832	55 00
	Lucy Allen .....	" " .....	1833	55 00
	C. B. Guittard .....	" " .....	1834	55 00
	R. D. Bohannon.....	" " .....	1835	225 00
	Geo. W. McCoard ....	" " .....	1836	160 00
	C. L. Arnold .....	" " .....	1837	100 00
	K. D. Swartzell .....	" " .....	1838	100 00
	S. E. Rasor.....	" " .....	1839	70 00
	J. F. Travis .....	" " .....	1840	30 00
	W. E. Davis .....	" " .....	1841	15 00
	W. T. Magruder.....	" " .....	1842	225 00
	E. A. Hitchcock .....	" " .....	1843	165 00
	A. F. Hall .....	" " .....	1844	62 50
	E. G. Bailey .....	" " .....	1845	18 00
	Geo. W. Frost .....	" " .....	1846	30 00
	N. W. Lord.....	" " .....	1847	200 00
	E. E. Sommermeier .....	" " .....	1848	75 00
	Gustav Bruder .....	" " .....	1849	20 00
	Frank A. Ray .....	" " .....	1850	200 00
	Geo. B. Kauffman .....	" " .....	1851	200 00
	W. A. Landacre.....	" " .....	1852	80 00
	W. H. Scott .....	" " .....	1853	225 00
	A. E. Davies .....	" " .....	1854	30 00
	C. P. Linhart .....	" " .....	1855	160 00
	Clara M. Berryman .....	" " .....	1856	75 00
	D. C. Huddleson .....	" " .....	1857	50 00
	B. F. Thomas .....	" " .....	1858	225 00
	J. E. Boyd .....	" " .....	1859	120 00
	F. E. Kester .....	" " .....	1860	80 00
	H. B. Brooks .....	" " .....	1861	20 00
	J. V. Denny .....	" " .....	1862	225 00
	W. L. Graves .....	" " .....	1863	100 00
	H. C. Allen .....	" " .....	1864	115 00
	G. H. McKnight .....	" " .....	1865	100 00
	W. E. Bohn .....	" " .....	1866	30 00
	B. L. Bowen .....	" " .....	1867	225 00
	C. A. Bruce .....	" " .....	1868	110 00
	R. T. Jones .....	" " .....	1869	20 00
	D. S. White .....	" " .....	1870	180 00
	C. B. Frederick.....	" " .....	1871	90 00
	O. V. Brumley .....	" " .....	1872	60 00
	Paul Fischer .....	" " .....	1873	180 00
	Herbert Osborn .....	" " .....	1874	225 00
	J. S. Hine .....	" " .....	1875	95 00
	F. L. Landacre .....	" " .....	1876	95 00
	E. D. Ball .....	" " .....	1877	30 00
24	Alexis Cope .....	" " .....	1878	187 50
26	K. H. Duncan .....	" " .....	1879	58 33

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
Jan. 26	E. D. Cockins.....	January salary .....	1880	\$58 33
21	Lily Weeks .....	Salary 1 week.....	1881	5 00
	Jno. C. Ricketts .....	January Salary.....	1882	45 00
	James Kelley .....	" " .....	1883	30 00
	W. C. Weir .....	" " .....	1884	25 00
	C. M. Hicks .....	" " .....	1885	56 25
	Ray Barton .....	" " .....	1886	25 00
	G. A. Goodspeed .....	" " .....	1887	40 00
	J. H. Brown .....	" " .....	1888	15 00
	J. H. Brown .....	" " .....	1889	25 00
	D. D. Geren .....	" " .....	1890	40 00
	W. Whitestone .....	" " .....	1891	40 00
	Harry Chantler.....	" " .....	1892	40 00
	Wash Townsell .....	" " .....	1893	25 00
	G. C. Denny .....	" " .....	1894	40 00
	M. N. Cook .....	" " .....	1895	40 00
	Wm. Conklin .....	" " .....	1896	40 00
	J. C. Perry .....	" " .....	1897	12 50
	H. M. Templin .....	" " .....	1898	40 00
	W. C. McCracken.....	" " .....	1899	150 00
	C. M. Low .....	" " .....	1900	54 17
Jan. 26	Wm. Standley.....	" " .....	1901	50 00
	Benj. LeBay.....	" " .....	1902	50 00
	Thos. A. Boude.....	" " .....	1903	50 00
	W. H. Case.....	" " .....	1904	50 00
	Marion Peck.....	" " .....	1905	40 00
	Geo. R. Rose.....	" " .....	1906	65 00
	Jos. A. Garretson.....	" " .....	1907	37 50
	C. H. Woodruff.....	" " .....	1908	65 00
	C. L. E. Moore.....	" " .....	1909	10 00
	N. O. Ford.....	" " .....	1910	25 00
	R. A. Abbott.....	" " .....	1911	30 00
	Sarah Barrows.....	" " .....	1912	15 00
	R. M. Rownd, P. M....	Stamped envelopes ....	1913	42 40
	M. J. Kellenberger.....	January salary .....	1914	25 00
	Mary W. Rice.....	" " .....	1915	25 00
	Dan E. Ball.....	" " .....	1916	30 00
	T. E. Osborne.....	" " .....	1917	45 00
	C. L. E. Moore.....	" " .....	1918	5 00
	R. M. Rownd, P. M....	Bal due on envelopes ..	1919	40
	Cols. Citizens' Telephone Co .....	Phone rentals Jan. 1 to March 31, 1901.....	1920	90 00
	F. E. Fleischer.....	January salary .....	1921	40 00
	D. A. Crouner.....	" " .....	1922	66 66
	Lily Weeks.....	1 week's salary .....	1923	5 00
	Florence Bell.....	Clerical services .....	1924	2 10
Feb. 4	Lily Weeks.....	1 week's salary .....	1925	5 00
7	C. A. Bauman.....	Work in dairy laboratory .....	1926	15 00
	A. C. Barrows.....	Expenses .....	1927	2 00
	Frank A. Bohn.....	Library work .....	1928	14 00
	Fred A. Brewer.....	Labor at power house ..	1929	36 00
	Perla J. Bowman.....	Department expenses ..	1930	2 00
	M. H. Barlow.....	Services as "fellow" ..	1931	3 60
	Geo. R. Bott.....	Drafting .....	1932	1 13
	E. H. Bailey.....	Labor .....	1933	12 95
	A. J. Boehme.....	Work in department ..	1934	4 88
	Chas. P. Crowe.....	Operating table .....	1935	32 60
	John W. Decker.....	Expenses .....	1936	13 07

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901 Feb. 7	M. Dresbach .....	Department supplies ..	1937	\$5 00
	Grace Eagleson .....	Clerical services .....	1938	9 55
	T. R. Evans .....	Machinist's labor .....	1939	74 00
	Mrs. Fred Ehrling .....	Labor .....	1940	11 00
	R. W. Funk .....	Work in storeroom ..	1941	16 20
	Paul Fischer .....	Department supplies ..	1942	6 40
	C. B. Frederick .....	Anatomy horses .....	1943	29 87
	Geo. W. Frost .....	Department labor ....	1944	41 00
	Herbert Gibson .....	Services in dairy lab- oratory .....	1945	15 00
	Wm. Garrett .....	Wheeling coal .....	1946	45 00
	Arthur Goddard .....	Wiring .....	1947	1 53
	D. C. Holt .....	Assistant in dairy lab- oratory .....	1948	15 00
	O. P. Humphrey .....	Guide services .....	1949	2 50
	Clyde Heacock .....	Work in dept. vet. med.	1950	75
	B. B. Herrick .....	Milk .....	1951	185 48
	Laurel L. Hill .....	Clerical services .....	1952	15 00
	F. H. Haskett .....	Labor .....	1953	25 42
	Honline & West .....	Books .....	1954	100 20
	John R. Johnson .....	Carting coal .....	1955	12 75
	Chas. E. Jackson .....	January salary .....	1956	20 00
	F. R. Kunkle .....	Department labor ....	1957	15 18
	Harry Kinnear .....	Wiring .....	1958	32 24
	F. C. Long .....	Guide services .....	1959	6 75
	Lewis F. Ladrach .....	Student assistant .....	1960	15 00
	J. A. McClellan .....	Student assistant .....	1961	15 00
	W. Morelan .....	Carpenter work .....	1962	7 20
	A. D. Morley .....	Carpenter work .....	1963	17 80
	Wm. T. Magruder .....	Casting .....	1964	1 00
	Edward Orton, Jr. ....	Money advanced .....	1965	29 82
	Geo. F. Pease .....	Guide service .....	1966	2 63
	Helen Powell .....	Clerical services .....	1967	22 30
	S. A. Postle .....	Student assistance .....	1968	15 00
	Homer C. Price .....	Postage and stationery	1969	1 50
	T. A. Panter .....	Janitor .....	1970	14 85
	M. N. Prange .....	Labor .....	1971	2 18
	C. C. Poindexter .....	Labor in dent .....	1972	6 75
	Beulah Potts .....	Music .....	1973	2 25
	O. G. Roberts .....	Machinist's labor .....	1974	35 40
	J. H. Randall .....	Carpenter work .....	1975	16 50
	J. W. Shaw .....	Work in law library ...	1976	9 50
	W. C. Smith .....	Work in law library ...	1977	9 80
	Wilbur Sample .....	Labor .....	1978	46 50
	Edith Seymour .....	Music .....	1979	12 25
	F. O. Snyder .....	Guide .....	1980	5 88
	J. A. Stiver .....	Guide service .....	1981	16 87
	Mason Snow .....	Labor .....	1982	14 05
	C. L. Sackett .....	Advertisement .....	1983	58 33
	Roy W. Thompson .....	Guide service .....	1984	4 25
	W. O. Thompson .....	Expenses .....	1985	45 70
	C. S. VanDyke .....	Student assistance .....	1986	15 00
	H. A. Weber .....	Department supplies ...	1987	3 00
	Arthur Watts .....	Scholarship fee .....	1988	12 50
	H. E. Williams .....	Labor in dent .....	1989	14 10
	E. Wallace .....	Student labor .....	1990	5 38
	C. C. Wilcox .....	Labor .....	1991	2 66
	G. A. Warner .....	Carpenter work .....	1992	1 20
	A. F. Wilcox .....	Carpenter work .....	1993	36 80
	M. A. Warner .....	Carpenter work .....	1994	6 00



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901 Feb. 7	American District Tel- egraph Co.....	Night watch boxes....	1995	\$27 00
	J. S. Abbott & Co.....	Hardware .....	1996	11 49
	Samuel Butler & Co....	Gluten feed .....	1997	5 00
	W. M. Brown .....	Measure .....	1998	5 00
	Borger Bros & Co....	Steel-plate .....	1999	1 90
	Geo. S. Beall.....	Notions .....	2000	4 83
	Buckeye Brass F'dry...	Castings .....	2001	29 40
	Burt Printing Co.....	Advertisement .....	2002	15 00
	Bowden Towel Sup. Co.	Towel supply .....	2003	4 25
	Blackwood, Green & Co	Muffler, hood, etc....	2004	6 72
	H. Braun Sons & Co..	Drugs, etc. ....	2005	3 71
	Burkett & Kimball.....	Feed, etc., .....	2006	28 77
	Bucher Engraving Co..	Halftones .....	2007	13 30
	Columbus Merchandise Co .....	Merchandise .....	2008	8 95
	N. I. Carruthers.....	Shelves .....	2009	2 50
	Columbus Varnish Co..	Shellac .....	2010	3 40
	Central Ohio Paper Co.	Paper .....	2011	4 70
	J. P. Carlile.....	Jersey plaster .....	2012	2 50
	Columbus Macadam Co.	Crushed stone .....	2013	39 73
	Columbus Street Repair Department .....	Athens block .....	2014	16 28
	Columbus Machine Co..	Castings .....	2015	28 44
	Columbus Bank Note Co .....	Letter heads .....	2016	8 00
	G. W. Clark & Co.....	Lumber .....	2017	9 60
	Columbus Show Case Works .....	Cases .....	2018	33 00
	Geo. D. Cross Lumber Co. ....	Lumber .....	2019	3 63
	The Cherington Print- ing and Engraving Co.	Stamps, pads, etc., ...	2020	3 15
	Columbus Paint Mfg. Co	Varnish .....	2021	80
	Columbus Wire and Iron Works .....	Pol'try netting and mats	2022	6 10
	The H. Cole Co.....	Supplies .....	2023	4 68
	Columbus Supply Co....	Supplies .....	2024	94 64
	Capital City Machine Works .....	Supplies .....	2025	57 47
	Champlin Printing Co..	Printing .....	2026	142 75
	Columbus Mill and Mine Supply Co.....	Supplies .....	2027	14 40
	Wm. Durlfinger.....	Milk tickets .....	2028	6 00
	W. J. Davidson.....	Hay .....	2029	31 50
	E. Doddington.....	Lumber .....	2030	12 66
	Engelke & Bigelow.....	Freight and cartage ...	2031	25 29
		Freight and cartage ...	2032	87 93
	G. W. Early.....	Piano .....	2033	300 00
	Eaton Machine Works..	Locker irons .....	2034	5 82
	Elec. Supply and Const. Co .....	Wire and lamps .....	2035	2 72
	Erner & Hopkins.....	Electrical supplies ...	2036	86 96
	H. L. Fishback & Co..	Pipe elbow .....	2037	15
	The Fish Stone Co....	Window cap and sill ..	2038	2 80
	A. F. Fenstermaker & Co	Painting .....	2039	41 00
	Franklin Toilet Supply Co .....	Towel supply .....	2040	59 45
	J. J. Gheen.....	Plastering .....	2041	18 55

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
Feb. 7	Charles Hess .....	Moving truck .....	2042	\$2 50
	N. C. Hager .....	Groceries .....	2043	44 22
	Howald & Conklin .....	Linoleum, etc. ....	2044	32 64
	Hanna Paint Mfg. Co..	White and red lead ...	2045	20 25
	Hann & Adair .....	Printing .....	2046	28 30
	Hall-Collins Hardware Co.	Hardware .....	2047	10 53
	P. Hayden Saddlery Hardware Co.	Castings, etc., .....	2048	19 26
	The Jeffrey Mfg. Co....	Sprocket, chain, etc..	2049	10 98
	Kilbourne & Jacobs Mfg. Co.	Supplies .....	2050	2 25
	Krauss Butler & Benham Co.	Tapestry and mats ...	2051	5 65
	Kauffman-Lattimer Co..	Drugs and sundries ...	2052	477 84
	Kelton & Converse .....	Lumber .....	2053	27 93
	Lutheran Book Concern.	Binding .....	2054	1 20
	Lawrence Fress Co....	Instruction reports ...	2055	3 75
	Lynas Bros .....	Candles .....	2056	3 00
	Oscar S. Lear .....	Supplies .....	2057	10 75
	Livingston Seed Co....	Seed .....	2058	6 53
	Murray City Coal Co....	Coal .....	2059	2,229 08
	McClelland & Co. ....	Neostyle paper .....	2060	1 00
	The H. Mithoff & Co..	Cloth brass .....	2061	75
	Thomas C. Miller .....	Finishing doors .....	2062	3 00
	Logan McCormick .....	Oak frame .....	2063	1 10
	Monypeny Hammond & Co.	Safety matches .....	2064	2 75
	McAllister Mohler & Co.	Chairs, desks, etc., ...	2065	200 65
	Robert A. McClure....	Lumber .....	2066	40 71
	Nitschke Bros. ....	Paper and printing ...	2067	72 55
	Pennsylvania Fuel Co..	Coal and sand .....	2068	7 58
	Payne-McDonald Hardware Co.	Hardware .....	2069	6 30
	James Penn .....	Hauling .....	2070	6 83
	Chas. J. Palmer .....	Roofing and repairs ...	2071	52 24
	Reynolds Bros. ....	Floats .....	2072	1 85
	Ruggles-Gale Co. ....	Supplies .....	2073	8 50
	Perry Smythe .....	Frames .....	2074	3 20
	Wm. Paas .....	Cotton seed .....	2075	23 50
	Shaffer Roofing Co....	Roofing .....	2076	1 25
	J. R. Shrum Co. ....	Supplies .....	2077	1 91
	Sparks-Seward Co. ....	Clay brick .....	2078	28 50
	Schoedinger, Fern & Co.	Hardware .....	2079	6 67
	Seraphim Bl'k Book Co.	Binding .....	2080	34 95
	Standard Oil Co. ....	Oil and gasoline .....	2081	70 47
	Spahr & Glenn .....	Printing .....	2082	50 25
	Taylor Williams & Co..	Coal .....	2083	134 39
	Tracy-Wells Co. ....	Supplies .....	2084	37 06
	Tallmadge Hardware Co.	Hardware .....	2085	48 93
	Williams & Herdman Co	Jars .....	2086	4 68
	J. M. & W. Westwater.	Lard oil lamps .....	2087	1 00
	L. S. Wells .....	Books, etc., .....	2088	19 68
	Z. L. White & Co. ....	Dry goods, etc. ....	2089	5 10
	American Tool Works Co.	Box tool .....	2090	25 00
	The American Meter Co	Scales .....	2091	3 06
	American Battery Co....	Supplies .....	2092	8 33

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901 Feb. 7	Adams - Bagnall Elect. Co .....	Air pot .....	2093	\$1 50
	American Bridge Co....	Channels and angles ...	2094	34 35
	American Microscopical Society .....	Proceedings .....	2095	2 00
	American Journal of Physiology .....	Volume V .....	2096	5 00
	American Society of Me- chanical Engineers ..	Volume XX .....	2097	6 00
	American Journal of Science .....	Subscriptions .....	2098	2 50
	W. H. Anderson & Co..	Reports .....	2099	19 50
	Buhl Stamping Co.....	Cans .....	2100	126 25
	D. A. Burrell & Co....	Dairy supplies .....	2101	23 72
	Mrs. Maud Beach.....	Butter fat .....	2102	11 81
	Geo. F. Blake Mfg. Co.	L. R. valves .....	2103	7 04
	Babcock & Wilcox Co..	Tubes .....	2104	134 40
	The Bristol Co.....	Charts .....	2105	3 32
	Boston Testing Labora- tories .....	Subscription .....	2106	3 00
	Boston Book Binding Co	Canvas binders .....	2107	2 25
	Baker & Adamson Chem- ical Co.....	Chemicals .....	2108	99 45
	Bausch & Lomb Optical Co .....	Scientific instruments .	2109	31 04
	James G. Biddle.....	Scientific instruments ..	2110	92 85
	Burrows Bros. Co.....	Books .....	2111	8 48
	Creamery Package Mfg. Co .....	Tubes .....	2112	7 92
	Cleveland Gear Works.	Gears .....	2113	8 00
	Central Electric Co....	Wire .....	2114	69 68
	Chase Shawmut Co....	Fuse links .....	2115	81
	J. Carbutt.....	Plates .....	2116	69 95
	Denver Fire Clay Co..	Crucibles .....	2117	32 78
	Engineering News Pub- lishing Co.....	Library .....	2118	2 00
	Eimer & Amend.....	Supplies .....	2119	229 17
	Farmers' Handy Wagon Co .....	Wagon and equipment .	2120	47 70
	Foote Mineral Co.....	Pyrobusite .....	2121	7 50
	Clucas & Boddington Co	Pipes and bulbs .....	2122	12 50
	Chas. A. Eddy, Mgr....	Formaldehyde .....	2123	50
	H. L. Fairchild, Sec'y..	Volume XI .....	2124	5 00
	Emil Greiner.....	Apparatus .....	2125	14 80
	Geometric Drill Co....	Dies .....	2126	56 33
	Hoggson & Rettis Mfg. Co .....	Steel stamps .....	2127	4 52
	W. R. Harrison & Co..	Knives, etc., .....	2128	7 54
	A. A. Heller.....	Catalogue .....	2129	3 42
	D. C. Heath & Co.....	Book .....	2130	50
	C. Hennecke Co.....	Casts, etc., .....	2131	16 15
	Hohman & Maurer Mfg. Co .....	Thermometers etc., ...	2132	9 13
	Henry Holt & Co....	Book .....	2133	2 37
	Bruno Hessling.....	Publications .....	2134	13 90
	S. Hawkrigde.....	Oxygen gas .....	2135	8 77
	India Alkali Works....	Savogram .....	2136	17 35
	Jones & Laughlin.....	Steel .....	2137	1 45
	W. H. Haskins, Mgr....	Advertisement .....	2138	8 75



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
Feb. 7	Charles W. Johnson....	Proceedings .....	2139	\$6 50
	H. W. Johns Mfg. Co..	Lead, oil and can .....	2140	5 08
	Kiep Binder Co.....	Keys .....	2141	5 00
	Otto Kuntze.....	Minerals .....	2142	12 90
	Laidlaw - Dunn - Gordon Co .....	Piston rods and packing .....	2143	3 45
	The Lagonda Mfg. Co.	Supplies .....	2144	40 00
	Library Bureau.....	Supplies .....	2145	102 75
	T. H. McAllister.....	Plain slides .....	2146	32 40
	W. H. Miller Co.....	Gate valve .....	2147	19 80
	Marine Biological Lab- oratory .....	Specimens .....	2148	14 10
	Murphy Iron Works....	Pins, etc., .....	2149	8 50
	The McMillan Co.....	Books .....	2150	9 49
	The Fred Macey Co....	Desk, etc. ....	2151	34 70
	Noera Mfg. Co.....	Oilers, etc., .....	2152	9 49
	National Stockman and Farmer .....	Advertisement .....	2153	52 50
	Irwin Shepard, Sec'y...	Volume proceedings ..	2154	2 00
	The Ohio Farmer.....	Advertisement .....	2155	94 50
	L. P. Bailey, Sec'y....	Advertisement .....	2156	10 00
	Anthony Paulus.....	Butter fat .....	2157	8 65
	Wm. H. Pierce & Co....	Lantern slides .....	2158	15 20
	Pharmaceutical Review Publishing Co.....	Copy of review .....	2159	2 50
	Pictorial Printing Co..	Stickers .....	2160	2 58
	Queen & Co.....	Repairing x-ray tube ..	2161	2 50
	W. W. Robinett.....	Fossils .....	2162	2 50
	Standard Chain Co....	Iron .....	2163	15 53
	L. S. Starrett & Co....	Gauge .....	2164	1 17
	Stumpf & Steurer.....	Advertisement .....	2165	33 60
	E. S. Sargent Co.....	Drugs and sundries ..	2166	123 65
	Sherwood Mfg. Co.....	Supplies .....	2167	57 00
	G. E. Steckert.....	Books .....	2168	73 01
	" .....	Books .....	2169	953 15
	Torrey Botanical Club..	Index cards .....	2170	3 56
	M. E. Thompson.....	Butter fat .....	2171	62 82
	The Toledo Critic.....	Advertisement .....	2172	20 00
	U. S. E. Tile Works..	Tile .....	2173	13 63
	Westinghouse Elec. and Mfg. Co.....	Repairing motor etc., ..	2174	36 16
	J. H. Williams & Co....	Forgings .....	2175	11 30
	Wadsworth Salt Co....	Dairy salt .....	2176	2 25
	Wagner Glass Works...	Bottles and ther'meters.	2177	11 75
	Westerville Creamery Co	Butter fat .....	2178	99 85
	Ward's Natural Science Establishment .....	Minerals .....	2179	52 20
	Ward-Leonard Electric Co .....	Rheostat .....	2180	6 84
	H. W. Wilson, Publisher	Catalogue .....	2181	10 00
	John Wiley & Sons....	Books .....	2182	101 25
	Webb Stationery and Printing Co.....	Supplies .....	2183	17 80
	C. N. Mooney.....	Making charts .....	2184	3 75
	Franklin Toilet Supply Co .....	Towel service .....	2185	5 50
	J. R. Chamberlain.....	Assistance in drawing..	2186	20 00
9	Tallmadge Hardware Co .....	Hardware .....	2187	5 50



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
Feb. 9	Alexis Cope .....	February salary .....	2188	\$187 50
12	B. F. Yates.....	Auditors services .....	2189	5 00
	Lily Weeks.....	Janitress work .....	2190	5 00
	John W. Groves.....	April salary, 1900, ....	2191	50 00
	The Columbus Gas Co..	January gas bill .....	2192	188 03
	Columbus Supply Co....	Supplies .....	2193	1 24
14	H. P. Williams.....	V. M. L. records .....	2194	2 00
15	Ohio National Bank....	Bank money order for Hartman & Braun ..	2195	43 50
	R. M. Rownd, P. M....	1000 postal cards .....	2196	10 00
	W. E. Severn.....	Services as vet. clerk..	2197	37 70
23	Thos. F. Hunt.....	February salary .....	2198	250 00
	W. D. Gibbs.....	" " .....	2199	160 00
	John W. Decker.....	" " .....	2200	140 00
	Frank Ruhlen.....	" " .....	2201	66 66
	B. B. Herrick.....	" " .....	2202	50 00
	H. A. Weber.....	" " .....	2203	225 00
	A. E. Vinson.....	" " .....	2204	85 00
	Geo. W. Knight.....	" " .....	2205	250 00
	A. H. Tuttle.....	" " .....	2206	90 00
	Chas. B. Sayre.....	" " .....	2207	25 00
	A. M. Bleile.....	" " .....	2208	225 00
	C. B. Morrey.....	" " .....	2209	110 00
	M. Dresbach.....	" " .....	2210	50 00
	H. C. Lord.....	" " .....	2211	200 00
	A. G. McCall.....	" " .....	2212	20 00
	W. A. Kellerman.....	" " .....	2213	225 00
	J. H. Schaffner.....	" " .....	2214	110 00
	Walter Fischer.....	" " .....	2215	25 00
	Harriet Burr.....	" " .....	2216	25 00
	F. K. Luke.....	" " .....	2217	50 00
	Wm. McPherson.....	" " .....	2218	225 00
	S. A. Norton.....	" " .....	2219	125 00
	W. E. Henderson.....	" " .....	2220	100 00
	H. C. Gore.....	" " .....	2221	60 00
	C. P. Linville.....	" " .....	2222	30 00
	W. L. Dubois.....	" " .....	2223	30 00
	C. H. Kimberly.....	" " .....	2224	30 00
	Harry Hance.....	" " .....	2225	10 00
	C. N. Brown.....	" " .....	2226	225 00
	C. E. Sherman.....	" " .....	2227	110 00
	Wm. L. Davies.....	" " .....	2228	50 00
	E. E. Harrold.....	" " .....	2229	85 00
	N. P. Oglesby.....	" " .....	2230	45 00
	Edward Orton, Jr.....	" " .....	2231	190 00
	S. V. Peppel.....	" " .....	2232	60 00
	P. G. Bowman.....	" " .....	2233	140 00
	C. P. Souther.....	" " .....	2234	90 00
	J. N. Bradford.....	" " .....	2235	190 00
	Thos. E. French.....	" " .....	2236	110 00
	Thos. K. Lewis.....	" " .....	2237	80 00
	Silas Martin.....	" " .....	2238	100 00
	F. C. Clark.....	" " .....	2239	180 00
	S. F. Smyser.....	" " .....	2240	30 00
	Mary E. Rice.....	" " .....	2241	25 00
	J. P. Gordy.....	" " .....	2242	225 00
	F. M. Hamilton.....	" " .....	2243	80 00
	F. C. Caldwell.....	" " .....	2244	160 00
	S. S. Edmunds.....	" " .....	2245	60 00
	J. P. Covan.....	" " .....	2246	70 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
Feb. 23	H. C. Nidy.....	February salary .....	2247	\$12 50
	A. C. Barrows.....	" " .....	2248	225 00
	J. R. Taylor.....	" " .....	2249	120 00
	W. H. Siebert.....	" " .....	2250	150 00
	C. S. Prosser.....	" " .....	2251	160 00
	John A. Bownocker....	" " .....	2252	140 00
	W. C. Mills.....	" " .....	2253	35 00
	E. A. Eggers.....	" " .....	2254	225 00
	C. W. Mesloh.....	" " .....	2255	130 00
	E. H. Moore.....	" " .....	2256	20 00
	J. R. Smith.....	" " .....	2257	225 00
	A. W. Hodgman.....	" " .....	2258	120 00
	W. S. Elden.....	" " .....	2259	80 00
	W. R. Lazenby.....	" " .....	2260	225 00
	H. C. Price.....	" " .....	2261	58 33
	F. E. Sanborn.....	" " .....	2262	200 00
	W. H. Renck.....	" " .....	2263	90 00
	W. A. Knight.....	" " .....	2264	110 00
	C. P. Crowe.....	" " .....	2265	85 00
	S. C. Derby.....	" " .....	2266	225 00
	W. F. Hunter.....	" " .....	2267	250 00
	J. H. Collins.....	" " .....	2268	20 00
	J. A. Shauck.....	" " .....	2269	17 50
	E. B. Kinkad.....	" " .....	2270	120 00
	W. H. Page.....	" " .....	2271	140 00
	E. O. Randall.....	" " .....	2272	70 00
	D. F. Pugh.....	" " .....	2273	95 00
	Olive Jones.....	" " .....	2274	135 00
	Harriet N. Townshend..	" " .....	2275	55 00
	Gertrude Kellicott.....	" " .....	2276	55 00
	Maude Jeffrey.....	" " .....	2277	55 00
	Lucy Allen.....	" " .....	2278	55 00
	C. B. Guitard.....	" " .....	2279	55 00
	R. D. Bohannon.....	" " .....	2280	225 00
	Geo. W. McCoard.....	" " .....	2281	160 00
	C. L. Arnold.....	" " .....	2282	100 00
	K. D. Swartzel.....	" " .....	2283	100 00
	S. E. Rasor.....	" " .....	2284	70 00
	J. F. Travis.....	" " .....	2285	30 00
	W. E. Davis.....	" " .....	2286	15 00
	W. T. Magruder.....	" " .....	2287	225 00
	E. A. Hitchcock.....	" " .....	2288	165 00
	A. F. Hall.....	" " .....	2289	62 50
	E. G. Bailey.....	" " .....	2290	18 00
	Geo. W. Frost.....	" " .....	2291	30 00
	N. W. Lord.....	" " .....	2292	200 00
	E. E. Sommermeier.....	" " .....	2293	75 00
	Gustav Bruder.....	" " .....	2294	20 00
	F. A. Ray.....	" " .....	2295	200 00
	Geo. B. Kauffman.....	" " .....	2296	200 00
	W. A. Landacre.....	" " .....	2297	80 00
	W. H. Scott.....	" " .....	2298	225 00
	A. E. Davis.....	" " .....	2299	30 00
	C. P. Linhart.....	" " .....	2300	160 00
	Clara M. Berryman....	" " .....	2301	75 00
	D. C. Huddleson.....	" " .....	2302	50 00
	B. F. Thomas.....	" " .....	2303	225 00
	J. E. Boyd.....	" " .....	2304	120 00
	F. E. Kester.....	" " .....	2305	80 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
Feb. 23	H. B. Brooks.....	February salary .....	2306	\$20 00
	J. V. Denny.....	" " .....	2307	225 00
	W. L. Graves.....	" " .....	2308	100 00
	H. C. Allen.....	" " .....	2309	110 00
	G. H. McKnight.....	" " .....	2310	100 00
	W. E. Bohn.....	" " .....	2311	30 00
	B. L. Bowen.....	" " .....	2312	225 00
	C. A. Bruce.....	" " .....	2313	110 00
	R. T. Jones.....	" " .....	2314	20 00
	D. S. White.....	" " .....	2315	180 00
	C. B. Frederick.....	" " .....	2316	90 00
	O. V. Brumley.....	" " .....	2317	60 00
	Paul Fischer.....	" " .....	2318	180 00
	Herbert Osborn.....	" " .....	2319	225 00
	J. S. Hine.....	" " .....	2320	95 00
	F. L. Landacre.....	" " .....	2321	95 00
	E. D. Ball.....	" " .....	2322	30 00
	W. O. Thompson.....	" " .....	2323	416 67
	K. H. Duncan.....	" " .....	2324	58 33
	E. D. Cockins.....	" " .....	2325	58 33
	C. E. Steeb.....	" " .....	2326	65 00
	John Ricketts.....	" " .....	2327	45 00
	James Kelley.....	" " .....	2328	30 00
	Edith R. Hubler.....	" " .....	2329	25 00
	W. C. Weir.....	" " .....	2330	25 00
	T. E. Osborn.....	" " .....	2331	45 00
	Charles Hicks.....	" " .....	2332	45 00
	Ray Barton.....	" " .....	2333	20 00
	G. A. Goodspeed.....	" " .....	2334	40 00
	J. H. Brown.....	" " .....	2335	25 00
	" .....	" " .....	2336	15 00
	D. D. Geren.....	" " .....	2337	40 00
	Fred Fleischer.....	" " .....	2338	40 00
	Wm. Whitestine.....	" " .....	2339	40 00
	Harry Chantler.....	" " .....	2340	40 00
	W. Townsell.....	" " .....	2341	25 00
	G. C. Denny.....	" " .....	2342	40 00
	M. N. Cook.....	" " .....	2343	40 00
	Wm. Conklin.....	" " .....	2344	40 00
	J. C. Perry.....	" " .....	2345	12 50
	H. M. Templin.....	" " .....	2346	40 00
	W. C. McCracken.....	" " .....	2347	150 00
	C. M. Low.....	" " .....	2348	54 17
	Wm. Standley.....	" " .....	2349	50 00
	Benj. LeBay.....	" " .....	2350	50 00
	Thomas A. Boude.....	" " .....	2351	50 00
	W. H. Case.....	" " .....	2352	50 00
	Marion Peck.....	" " .....	2353	40 00
	Geo. R. Rose.....	" " .....	2354	65 00
	Jos. A. Garretson.....	" " .....	2355	37 50
	C. H. Woodruff.....	" " .....	2356	65 00
	C. L. E. Moore.....	" " .....	2357	15 00
	N. O. Ford.....	" " .....	2358	25 00
	R. A. Abbott.....	" " .....	2359	30 00
	Sarah Barrows.....	" " .....	2360	15 00
	D. A. Crowner.....	" " .....	2361	66 66
	Dan E. Ball.....	" " .....	2362	30 00
	Mildred Waters.....	" " .....	2363	20 00
18	Lily Weeks.....	1 week's salary.....	2364	5 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
Feb. 21	Columbus Mill and Mine Supply Co.....	Supplies .....	2365	\$5 93
23	E. E. Noble.....	Salary to Feb. 11, 1901.	2366	10 00
	F. J. Tyler.....	February salary .....	2367	25 00
25	J. R. Chamberlain.....	Salary .....	2368	46 66
	M. J. Kellenberger.....	Services in dept. dom. economy .....	2369	25 00
	West. Union Tel. Co..	Dec. and Jan. telegrams	2370	6 37
	Lily Weeks.....	1 week's salary.....	2371	5 00
March 4	Lily Weeks.....	" " .....	2372	5 00
5	Thos. J. Godfrey.....	Expenses as trustee...	2373	17 10
	W. Stillman Dutton...	Services as architect...	2374	500 00
7	Florence Bell.....	Clerical services.....	2375	1 95
	F. W. Arnold.....	Student labor .....	2376	2 55
	Frank A. Bohn.....	Work in library.....	2377	11 00
	Fred Brewer.....	Cleaning boilers.....	2378	33 00
	E. G. Bailey.....	Fireman .....	2379	4 62
	A. J. Boehme.....	Drafting .....	2380	1 05
	J. N. Bradford.....	Supplies & illustrations	2381	39 50
	F. E. Dunn.....	Labor .....	2382	4 57
	O. Q. Dick.....	" .....	2383	5 25
	T. R. Evans.....	Machinist .....	2384	48 75
	Amelia Ehring.....	Work in Orton hall...	2385	12 00
	Grace Eagleson.....	Clerical service.....	2386	8 00
	R. W. Funk.....	Labor in store room...	2387	9 98
	Wm. Garrett.....	Wheeling coal.....	2388	39 00
	Jas. S. Hine.....	Department supplies...	2389	10 10
	B. B. Herrick.....	Milk .....	2390	303 63
	Mable Huddleson.....	Work in library.....	2391	8 19
	Edith R. Hubler.....	Typewriting .....	2392	3 00
	Laurel Hill.....	Clerical service.....	2393	15 00
	E. A. Hitchcock.....	Money advanced.....	2394	7 50
	O. P. Humphrey.....	Guide service.....	2395	4 37
	Frank H. Haskett.....	Student labor.....	2396	5 33
	Chas. E. Jackson.....	Ceramics scholarship ..	2397	20 00
	W. R. Judson.....	Student labor.....	2398	1 13
	Wm. F. Kern.....	" " .....	2399	12 45
	F. R. Kunkle.....	" " .....	2400	13 88
March 7	F. C. Long.....	Guide service.....	2401	6 00
	Max W. Morse .....	Student work.....	2402	3 45
	C. N. Mooney .....	Arranging bulletins, etc	2403	1 50
	Jno. D. Martin, Jr. ....	Money advanced.....	2404	3 00
	Wilbert Morelan .....	Carpenter work.....	2405	13 80
	B. N. Nicola.....	Work in law library.....	2406	3 60
	Edward Orton, Jr.....	Stenographic work.....	2407	25 00
	Bertha Patterson .....	Library work.....	2408	2 50
	C. C. Poindexter .....	Dept. labor.....	2409	8 00
	M. N. Prange.....	Student labor.....	2410	6 62
	T. A. Panter.....	Janitor work.....	2411	28 28
	Ernest Pierce .....	Student labor.....	2412	9 40
	Geo. F. Pease.....	Guide service .....	2413	2 25
	Helen Powell .....	Clerical services.....	2414	16 60
	J. H. Randall .....	Carpenter work.....	2415	6 30
	Mary Roney .....	Library work.....	2416	3 60
	James Ryan .....	Machinist labor.....	2417	19 75
	R. W. Thompson.....	Guide service.....	2418	4 12
	J. W. Shaw.....	Library work.....	2419	8 95
	W. C. Smith .....	" " .....	2420	9 00
	Mason Snow .....	" " .....	2421	8 70
	Mae Schaff .....	" " .....	2422	3 70



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901 March 7	Wilbur Sample .....	Work in boiler room..	2423	\$42 00
	Andrew Spittal.....	Department labor.....	2424	27 44
	J. W. Schab .....	Machinist labor.....	2425	20 40
	Jos. A. Stiver .....	Guide service.....	2426	5 00
	Edith Seymour .....	Musical accompaniment	2427	31 00
	F. O. Snyder .....	Labor .....	2428	3 75
	C. S. VanDyke.....	Fellow services .....	2429	30 00
	B. B. Wells .....	Carpenter work.....	2430	13 50
	H. E. Williams .....	Student labor.....	2431	9 45
	Burr Watters .....	" .....	2432	1 25
	M. A. Warner .....	Carpenter work .....	2433	4 80
	F. R. West .....	Books .....	2434	101 15
	J. S. Abbott & Co. ....	1 gallon glue.....	2435	1 75
	Beck & Orr .....	Mounting maps.....	2436	7 00
	Blackwood, Green & Co. ....	Tray .....	2437	95
	Bucher Engraving Co..	Reproduction .....	2438	60
	Wm. Burdell, Jr. ....	Repairing .....	2439	3 75
	H. Braun Sons & Co....	Supplies .....	2440	195 79
	Col's Plate and Wind. Glass Co. ....	Colored glass.....	2441	3 50
	Cotts Quick Printing Co. ....	Printing receipts.....	2442	8 00
	Columbus Varnish Co..	Shellac .....	2443	3 50
	Columbus Wire & Iron Works .....	Wire mat.....	2444	3 00
	Columbus Machine Co..	Steel castings.....	2445	12 98
	E. L. Charles .....	Freight and cartage....	2446	3 37
	Columbus Gas Co. ....	Coke .....	2447	37 55
	Col's Macadam Co. ....	Crushed stone .....	2448	27 00
	Col's Mdse. Co. ....	Paper supplies.....	2449	2 28
	Central Ohio Paper Co.	Paper, etc.....	2450	40 10
	Col's Mill & Mine Sup- ply Co. ....	Supplies .....	2451	21 94
	Capital City Mach. Wks	" .....	2452	29 09
	Champlin Prtg. Co.....	Printing .....	2453	20 00
	The H. Cole Co .....	Tapes and B. P. Paper	2454	9 80
	Cherington Ptg. & Eng. Co. ....	Stamps, pads, etc.....	2455	5 52
	Columbus Supply Co. ..	Supplies .....	2456	12 67
	E. Doddington & Co....	Lumber .....	2457	77 27
	Wm. Durlfinger .....	Milk .....	2458	4 00
	W. J. Davidson .....	Straw .....	2459	9 39
	D. H. Derflinger.....	Gasoline .....	2460	6 52
	Engelke & Bigelow....	Freight and cartage....	2461	35 83
	Electric Supply & Const. Co. ....	Supplies .....	2462	1 90
	H. L. Fishback & Co..	Hardware .....	2463	2 90
	Frankenberg Bros.....	Trays .....	2464	4 50
	Franklin Toilet Supply Co. ....	Towel service.....	2465	32 65
	Henry Goldsmith .....	Music .....	2466	4 00
	N. C. Hager .....	Groceries .....	2467	39 20
	Honline & West .....	Books .....	2468	9 55
	P. Hayden Sad. & Hdw. Co. ....	Cube and castings.....	2469	9 79
	Howald & Conklin ....	Tables and desk.....	2470	17 25
	Hann & Adair .....	Printing .....	2471	6 91
	Kauffman-Lattimer Co.	Drugs and sundries....	2472	138 58
	Kelton & Converse ...	Lumber .....	2473	6 39

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901 March 7	Lawrence Press Co. ....	Budget reports .....	2474	\$4 00
	Oscar Lear .....	Stencil, paper and ink..	2475	2 60
	Walter L. Lillie & Co. .	Frame .....	2476	1 00
	Murray City Coal Co. .	Coal .....	2477	1,597 72
	McClelland & Co. ....	Office supplies.....	2478	10 85
	J. S. Maclean .....	Chalk trough .....	2479	7 50
	Robert A. McClure ....	Lumber .....	2480	63 50
	No. Col's Bargain Store	Brand .....	2481	1 80
	Nitschke Bros. ....	Paper and printing.....	2482	25 85
	Ohio Inst. Mine Eng. .	Advertisement .....	2483	22 00
	T. J. O'Neil .....	Canvas .....	2484	5 75
	Ben D. Potts .....	Bushing .....	2485	12
	James Penn .....	Hauling .....	2486	2 98
	Penna. Fuel Co. ....	Lime .....	2487	6 00
	Charles J. Palmer ....	Waste box, brass and labor .....	2488	53 88
	Ruggles Gale & Co. .	Supplies .....	2489	2 20
	Standard Oil Co. ....	Oil and gasoline.....	2490	43 30
	A. H. Smythe .....	Ink and pens.....	2491	1 50
	Smith Premier Type- writer Co. ....	Typewriter .....	2492	70 00
	Seraphim Blank Book Co. ....	Binding .....	2493	109 45
	Schoedinger Fearn & Co. ....	Glass and butts.....	2494	17 91
	Spahr & Glenn .....	Printing, etc.....	2495	91 96
	Taylor, Williams & Co.	Coal .....	2496	133 75
	Tallmadge Hdw. Co. .	Hardware .....	2497	36 99
	Vogelgesang Furnace Co. ....	Repairing furnace.....	2498	22 80
	Z. L. White & Co. ....	Oil cloth.....	2499	1 40
	L. S. Wells & Co. ....	Books .....	2500	7 65
	A. H. Andrews & Co. .	Hyloplate .....	2501	18 00
	W. H. Anderson.....	Books .....	2502	11 00
	Amer. Guernsey Cattle Club. ....	Publications .....	2503	12 25
	Amer. Architect & Building News.....	Subscription .....	2504	6 00
	Amer. Entomological Co. ....	Boxes, etc., .....	2505	67 00
	D. H. Burrell & Co. .	Milk bottles .....	2506	3 50
	J. Bishop & Co. ....	Remaking plat. ware ..	2507	7 32
	James G. Biddle .....	Instruments .....	2680	22 50
	Bausch & Lomb Opt. Co. ....	Supplies .....	2509	16 96
	Cleveland Twist Drill Co. ....	Reamers .....	2510	12 81
	Crescent Steel Co. ....	Steel .....	2511	18 73
	J. Cramer Dry Plate Co.	Plates .....	2512	1 04
	Deane Steam Pump Co.	Pump .....	2513	415 00
	Joseph Dyson & Sons..	Forgings .....	2514	83 81
	Engineering Magazine.	Publications .....	2515	9 00
	Eimer & Amend .....	Supplies .....	2516	42 58
	John J. Flather .....	Dynamometer .....	2517	341 00
	Fairbanks, Morse & Co.	Sand .....	2518	9 65
	Gustav Heineman ....	Strontia crystal .....	2519	8 50
	Imperial Porcelain Wks	Jars and porcelain balls	2520	30 61
	The E. P. Judd Co. ....	Book .....	2521	1 00
	Chas. Engelhard .....	Acct. of W. C. Heraeus	2522	7 50
	Otto Kuntze .....	Minerals .....	2523	13 50

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901 March 7	James Leffel & Co.....	Bronze pinion .....	2524	\$2 65
	Knauth, Nahod & Kuhne .....	Acct. of Otto Harrassowitz .....	2525	1 62
	Library Bureau .....	Supplies .....	2526	30 46
	T. H. McAllister .....	Slides .....	2527	20 40
	New York Botanical Club .....	Journals .....	2528	2 25
	Edwin E. Howell .....	Collection of minerals ..	2529	50 00
	Oakes & Berger .....	Cans .....	2530	24 07
	S. L. Pritchard .....	Tank and box .....	2531	1 25
	Queen & Co. ....	Straining jars .....	2532	9 75
	Reliance Steel Casting Co. ....	Castings and steel .....	2533	25 93
	G. E. Stechert .....	Books .....	2534	74 50
	E. H. Sargent & Co. ..	Supplies .....	2535	93 65
	Torry Botanical Co. ...	Assessment .....	2536	5 00
	Farm Machine Co. ....	Agos tester .....	2537	8 00
	Watertown Engine Co. .	Eccentric and guide ...	2538	68 28
	West. Kieley Steam Spec. Co. ....	Steam traps .....	2539	25 00
	Worcester Machine Screw Co. ....	Screens .....	2540	45 00
	Wagner Glass Works...	Bottles, etc., .....	2541	16 50
	Western Electric Co. ...	Wire screws, etc., ....	2542	12 21
	Warren Mfg. Co. ....	Pulley cover .....	2543	6 00
	Webb Stationery & Ptg. Co. ....	Supplies .....	2544	54 05
	Henry R. Worthington	Valves etc., .....	2545	3 11
8	Jno. T. Mack .....	Expenses as trustee...	2546	30 35
7	Hann & Adair .....	Proceedings Board of Trustees .....	2547	515 61
11	W. O. Thompson .....	Atlas of Adams Co. ...	2548	20 00
	Columbus Gas Co. ....	February gas .....	2549	181 42
	Lily Weeks .....	Salary .....	2550	5 00
12	Postal Tel. Cable Co. ...	Telegram .....	2551	51
	Ohio National Bank ...	Money order .....	2552	33 05
	W. U. Telegraph Co....	February telegrams ...	2553	3 70
	W. L. Hayden .....	Collection of birds ....	2554	300 00
13	G. E. Stechert .....	Books .....	2555	73 04
14	L. C. Ferrell, Supt of Doc. ....	Books .....	2556	2 00
16	D. A. Crowner .....	March salary .....	2557	66 68
	Lily Weeks .....	Salary .....	2558	5 00
	B. B. Herrick .....	March salary .....	2559	50 00
30	Thomas F. Hunt .....	" " .....	2560	250 00
	W. D. Gibbs .....	" " .....	2561	160 00
	John W. Decker .....	" " .....	2562	140 00
	Frank Ruhlen .....	" " .....	2563	66 66
	H. A. Weber .....	" " .....	2564	225 00
	A. E. Vinson .....	" " .....	2565	85 00
	A. G. McCall .....	March and April salary	2566	40 00
19	Geo. W. Knight .....	March salary .....	2567	250 00
30	A. H. Tuttle .....	" " .....	2568	90 00
	Chas. B. Sayre .....	" " .....	2569	25 00
	A. M. Bleile .....	" " .....	2570	225 00
	C. B. Morrey .....	" " .....	2571	110 00
	M. Dresbach .....	" " .....	2572	50 00
	H. C. Lord .....	" " .....	2573	200 00
	W. A. Kellerman .....	" " .....	2574	225 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
March 30	J. H. Schaffner.....	March salary.....	2575	\$110 00
	Walter Fischer .....	" " .....	2576	25 00
	Hariett Burr .....	" " .....	2577	25 00
	F. K. Luke .....	" " .....	2578	50 00
	F. J. Tyler.....	" " .....	2579	25 00
	Wm. McPherson .....	" " .....	2580	225 00
	S. A. Norton .....	" " .....	2581	125 00
	W. E. Henderson .....	" " .....	2582	100 00
	H. C. Gore .....	" " .....	2583	60 00
	C. P. Linville.....	" " .....	2584	30 00
	W. L. Dubois .....	" " .....	2585	30 00
	C. H. Kimberly .....	" " .....	2586	30 00
	Harry Hance .....	" " .....	2587	10 00
	C. N. Brown .....	" " .....	2588	225 00
	C. E. Sherman .....	" " .....	2589	110 00
	Wm. L. Davies.....	" " .....	2590	50 00
	E. E. Harrold.....	" " .....	2591	85 00
	N. P. Oglesby .....	" " .....	2592	45 00
	Edward Orton, Jr .....	" " .....	2593	190 00
	S. V. Peppel .....	" " .....	2594	60 00
	P. G. Bowman .....	" " .....	2595	140 00
	C. P. Souther .....	" " .....	2596	90 00
	J. N. Bradford .....	" " .....	2597	190 00
	Thos. E. French .....	" " .....	2598	110 00
	Thos. K. Lewis.....	" " .....	2599	80 00
	Silas Martin .....	" " .....	2600	100 00
March 26	F. C. Clark .....	" " .....	2601	180 00
30	S. F. Smyser.....	" " .....	2602	30 00
	F. M. Hamilton .....	" " .....	2603	80 00
	F. C. Caldwell .....	" " .....	2604	160 00
	S. S. Edmunds .....	" " .....	2605	60 00
	J. P. Covan .....	" " .....	2606	70 00
	H. C. Nidy .....	" " .....	2607	12 50
	A. C. Barrows .....	" " .....	2608	225 00
	J. R. Taylor .....	" " .....	2609	120 00
	W. H. Siebert .....	" " .....	2610	150 00
	C. S. Prosser .....	" " .....	2611	160 00
	Jno. A. Bownocker.....	" " .....	2612	140 00
	W. C. Mills .....	" " .....	2613	35 00
27	E. A. Eggers .....	" " .....	2614	225 00
	C. W. Mesloh .....	" " .....	2615	130 00
	E. H. Moore .....	" " .....	2616	20 00
30	J. R. Smith.....	" " .....	2617	225 00
	A. W. Hodgman .....	" " .....	2618	120 00
	W. S. Elden .....	" " .....	2619	80 00
	W. R. Lazenby .....	" " .....	2620	225 00
	H. C. Price .....	" " .....	2621	58 33
	F. E. Sanborn .....	" " .....	2622	200 00
	W. H. Renck .....	" " .....	2623	90 00
	W. A. Knight .....	" " .....	2624	110 00
	C. P. Crowe .....	" " .....	2625	85 00
	S. C. Derby .....	" " .....	2626	225 00
	W. F. Hunter .....	" " .....	2627	250 00
22	J. H. Collins .....	" " .....	2628	20 00
	J. A. Schauck .....	" " .....	2629	17 50
30	E. B. Kinkaid .....	" " .....	2630	120 00
	W. H. Page .....	" " .....	2631	140 00
	E. O. Randall .....	" " .....	2632	70 00
	D. F. Pugh .....	" " .....	2633	95 00
	Olive Jones .....	" " .....	2634	135 00



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
March 30	Harriet N. Townshend..	March salary.....	2635	\$55 00
	Gertrude Kellicott .....	" " .....	2636	55 00
	Maude Jeffrey .....	" " .....	2637	55 00
	Lucy Allen .....	" " .....	2638	55 00
	C. B. Guittard .....	" " .....	2639	55 00
	R. D. Bohannon .....	" " .....	2640	225 00
	Geo. W. McCoard ....	" " .....	2641	160 00
	C. L. Arnold .....	" " .....	2642	100 00
	K. D. Swartzell .....	" " .....	2643	100 00
	S. E. Rasor.....	" " .....	2644	70 00
	J. F. Travis .....	" " .....	2645	30 00
	W. E. Davis .....	" " .....	2646	15 00
	Wm. T. Magruder ....	" " .....	2647	225 00
	E. A. Hitchcock .....	" " .....	2648	165 00
	A. F. Hall.....	" " .....	2649	62 50
	E. G. Bailey .....	" " .....	2650	18 00
	Geo. W. Frost.....	" " .....	2651	30 00
	N. W. Lord.....	" " .....	2652	200 00
	E. E. Somermeier.....	" " .....	2653	75 00
	Gustav Bruder .....	" " .....	2654	20 00
	F. A. Ray.....	" " .....	2655	200 00
	Geo. B. Kauffman.....	" " .....	2656	200 00
	W. A. Landacre.....	" " .....	2657	80 00
	W. H. Scott.....	" " .....	2658	225 00
	A. E. Davies.....	" " .....	2659	30 00
	C. P. Linhart.....	" " .....	2660	160 00
	Clara M. Berryman....	" " .....	2661	75 00
	D. C. Huddleson.....	" " .....	2662	50 00
	B. F. Thomas.....	" " .....	2663	225 00
	James E. Boyd.....	" " .....	2664	120 00
	F. E. Kester.....	" " .....	2665	80 00
	H. B. Brooks.....	" " .....	2666	20 00
	J. V. Denney.....	" " .....	2667	225 00
	W. L. Graves.....	" " .....	2668	100 00
	H. C. Allen.....	" " .....	2669	115 00
	G. H. McKnight.....	" " .....	2670	100 00
	W. E. Bohn.....	" " .....	2671	30 00
	B. L. Bowen.....	" " .....	2672	225 00
	C. A. Bruce.....	" " .....	2673	110 00
	R. T. Jones.....	" " .....	2674	20 00
	D. S. White.....	" " .....	2675	180 00
	C. B. Frederick.....	" " .....	2676	90 00
	O. V. Brumley.....	" " .....	2677	60 00
	Paul Fischer .....	" " .....	2678	180 00
	Herbert Osborn .....	" " .....	2679	225 00
	J. S. Hine.....	" " .....	2680	95 00
	F. L. Landacre.....	" " .....	2681	95 00
	E. D. Ball.....	" " .....	2682	30 00
	W. O. Thompson.....	" " .....	2683	416 67
24	Alexis Cope .....	" " .....	2684	187 50
30	K. H. Duncan.....	" " .....	2685	58 33
	E. D. Cockius.....	" " .....	2686	58 33
	Carl E. Steeb.....	" " .....	2687	65 00
	John Ricketts .....	" " .....	2688	45 00
	James Kelley .....	" " .....	2689	30 00
	E. R. Hubler.....	" " .....	2690	25 00
	W. C. Weir.....	" " .....	2691	25 00
	T. E. Osburn.....	" " .....	2692	45 00
	Charles Hicks .....	" " .....	2693	45 00
	Ray Barton .....	" " .....	2694	20 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
April 5	G. A. Goodspeed.....	March salary.....	2695	\$40 00
	J. H. Brown.....	" ".....	2696	25 00
	J. H. Brown.....	" ".....	2697	15 00
	D. D. Geren.....	" ".....	2698	40 00
	Fred Fleischer.....	" ".....	2699	40 00
	W. Whitestone.....	" ".....	2700	40 00
	Harry Chantler.....	" ".....	2701	40 00
	W. Townsell.....	" ".....	2702	25 00
	G. C. Denney.....	" ".....	2703	40 00
	M. N. Cook.....	" ".....	2704	40 00
	Wm. Conklin.....	" ".....	2705	40 00
	J. C. Perry.....	" ".....	2706	12 50
	H. M. Templin.....	" ".....	2707	40 00
	W. C. McCracken.....	" ".....	2708	150 00
	C. M. Low.....	" ".....	2709	54 17
	Wm. Standley.....	" ".....	2710	50 00
	Benj. LeBay.....	" ".....	2711	50 00
	Thos. A. Boude.....	" ".....	2712	50 00
	W. H. Case.....	" ".....	2713	50 00
	Marion Peck.....	" ".....	2714	40 00
	Geo. R. Rose.....	" ".....	2715	65 00
	Jos. A. Garretson.....	" ".....	2716	37 50
	Sarah Barrows.....	" ".....	2717	15 00
	R. A. Abbott.....	" ".....	2718	30 00
	N. O. Ford.....	" ".....	2719	25 00
	J. R. Chamberlain.....	" ".....	2720	33 33
	Dan E. Ball.....	" ".....	2721	30 00
	Mary W. Rice.....	" ".....	2722	25 00
	J. P. Gordy.....	" ".....	2723	225 00
22	C. H. Woodruff.....	" ".....	2724	65 00
30	C. L. E. Moore.....	" ".....	2725	15 00
	Mildred Waters.....	" ".....	2726	20 00
22	W. D. Guilbert.....	Copies of land surveys ..	2727	1 25
	Lily Weeks.....	Salary.....	2728	5 00
25	M. J. Kellenberger.....	Serv. dept. dom. econ- omy.....	2729	20 00
29	Lillie Weeks.....	Week salary.....	2730	5 00
	J. McLain Smith.....	Expenses as trustee ....	2731	14 35
30	F. C. Caldwell.....	Cash advanced.....	2732	4 82
April 1	W. E. Severn.....	Services as clerk.....	2733	21 95
4	C. E. Jackson.....	Fees, third term.....	2734	7 50
	Fred Brewer.....	Work in boiler house ..	2735	40 50
	A. J. Boehme.....	Drafting.....	2736	1 73
5	E. G. Bailey.....	Labor.....	2737	5 55
	Frank A. Bohn.....	Work in library.....	2738	15 25
	W. E. Cook.....	Labor on campus.....	2739	9 75
	R. D. DeWolf.....	Work in laboratory.....	2740	7 80
	Amelia Ehring.....	Work in Orton hall..	2741	13 00
	Grace Eagleson.....	Clerical service.....	2742	2 40
	Geo. W. Frost.....	Department labor.....	2743	25 70
	Paul Fischer.....	Department supplies ..	2744	8 05
	R. W. Funk.....	Labor in store room ...	2745	17 62
	Wm. Garrett.....	Wheeling coal.....	2746	17 25
	F. L. Haskett.....	Labor.....	2747	9 85
	Laural Hill.....	Clerical service.....	2748	15 00
	A. S. Harrington.....	Labor.....	2749	3 90
	O. P. Humphrey.....	Guide.....	2750	4 00
	Mabel Huddleson.....	Library work.....	2751	7 75
	C. E. Jackson.....	Labor.....	2752	20 00
	F. C. Long.....	Guide service.....	2753	5 50

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
April 5	Max W. Morse.....	Mounting specimens ..	2754	\$7 95
	Edw. Orton, Jr.....	Money advanced .....	2755	26 00
	Chas. Pixler .....	Wheeling coal .....	2756	22 50
	Helen Powell .....	Labor in registrars ofc	2757	7 40
	F. J. Prince.....	Work in laboratory....	2758	3 75
	Geo. A. Pease.....	Guide service .....	2759	1 70
	C. C. Poindexter.....	Labor in dept. ....	2760	6 25
	W. H. Renck.....	Pattern making .....	2761	38 50
	J. H. Randall.....	Carpenter work .....	2762	4 80
	C. L. Sackett, Mgr....	Advertisement, etc., ..	2763	58 33
	Wilbur Sample .....	Cleaning boiler .....	2764	43 50
	F. O. Synder.....	Janitor work .....	2765	2 50
	J. A. Stiver.....	Guide service .....	2766	9 00
	D. Singleton .....	Labor on kiln .....	2767	6 60
	Edith Seymour .....	Music .....	2768	14 00
	W. Morelan .....	Carpenter work .....	2769	5 40
	W. G. Smith.....	Work in library .....	2770	9 40
	Mason Snow .....	Library work .....	2771	9 75
	J. W. Shaw.....	Library work .....	2772	9 95
	C. E. Steeb.....	Notary fees .....	2773	2 25
	Roy Thompson .....	Guide service .....	2774	4 25
	W. O. Thompson.....	Expenses as president .	2775	4 19
	E. C. Turner.....	Bates statutes .....	2776	27 00
	F. R. West.....	Books .....	2777	234 94
	Burr Watters .....	Work in dept. ....	2778	56
	C. H. Woodruff.....	Carpenter work .....	2779	1 90
	Marion Warner .....	Carpenter work .....	2780	4 50
	Lloyd Yost .....	Making drawing .....	2781	4 99
	Acme Paving Co.....	Cement .....	2782	2 00
	J. Artz .....	Hay .....	2783	21 93
	J. S. Abbott & Co.....	Hardware .....	2784	22 87
	H. Braun Sons & Co..	Instruments and sup'lies	2785	8 25
	Bucher Eng. Mfg. Co..	Half tones .....	2786	3 50
	Bryson & Sons.....	Caning chair .....	2787	2 00
	Wm. Burdell, Jr.....	Supplies .....	2788	10 50
	Berlin Printing Co....	Printing .....	2789	33 50
	Columbus Supply Co...	Supplies .....	2790	12 68
	Columbus Dispatch ...	Adv. of bonds .....	2791	12 00
	Cent. Ohio Paper Co...	Paper and mounts ....	2792	45 70
	The Cols. Macadam Co.	Crushed stone .....	2793	19 38
	Cols. Mill & Mine Sy.			
	Co .....	Rubber matting .....	2794	8 48
	Champlin Printing Co.	Printing .....	2795	66 60
	Cols. Sporting Goods			
	Co .....	Gymnastic apparatus ..	2796	445 14
	Cols. Bolt Works.....	Machine bolts .....	2797	2 00
	Cols. Gas Co.....	Coke .....	2798	69 99
	John D. Cochran.....	Rollers .....	2799	4 65
	Columbus Slate Co....	Slate .....	2800	4 90
	Case Mfg. Co.....	Pulley and collars ....	2801	5 45
	Cap. City Marble Wks..	Tool and steel.....	2802	84
	Jas. P. Carlile.....	Brick and cement.....	2803	7 50
	Dunn, Taft & Co.....	Towels, rods, etc.....	2804	19 40
	Engelke & Bigelow....	Freight and cartage....	2805	21 70
	Elect. Supply & Cons.			
	Co .....	Electrical supplies.....	2806	11 44
	Erner & Hopkins Co...	Cells and zincs .....	2807	5 40
	Lillie Weeks .....	Janitress .....	2808	5 00
	Franklin Toilet Supply			
	Co .....	Towel supply.....	2809	40 54

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
April 5	Wm. Fisher & Sons....	Potatoes .....	2810	\$15 50
	Hann & Adair.....	Printing .....	2811	27 10
	Fred J. Heer.....	" .....	2812	6 72
	Harrington & Nonne- macher .....	Repairing clock.....	2813	50
	Howald & Conklin....	Stoves .....	2814	6 00
	P. Hayden Sadd. Hdwe. Co .....	Cubes and castings....	2815	47 05
	Jeffrey Mfg. Co.....	Castings, etc.....	2816	35 00
	Kauffman-Lattimer Co.	Drugs and sundries....	2817	1,585 44
	Kelton & Converse....	Lumber .....	2818	17 82
	Andrew Kaiser .....	Reservoirs .....	2819	3 00
	W. H. Miller & Co....	White waste.....	2820	33 72
	McAllister, Mohler & Co .....	Chair .....	2821	7 50
	Monypeny-Hammond & Co .....	Ivory soap.....	2822	6 25
	Murray City Coal Co...	Coal .....	2823	1,004 51
	McClelland & Co.....	Office supplies.....	2824	3 60
	Robert A. McClure....	Lumber .....	2825	11 17
	J. S. Maclean .....	Easel pins.....	2826	1 50
	Nitschke Bros .....	Leaflets .....	2827	4 75
	Payne-McDonald Hdwe. Co .....	Hardware .....	2828	1 13
	Lee Roessler .....	Art studies.....	2829	1 20
	Ruggles-Gale Co .....	Library paste.....	2830	3 00
	Seraphim Blank Book Co .....	Binding .....	2831	43 20
	Spahr & Glenn.....	Circulars .....	2832	13 75
	M. A. Suydam & Co....	Coal .....	2833	4 12
	Tallmadge Hdwe. Co...	Hardware .....	2834	7 81
	The Art Amateur Maga- zine .....	Art, amateur.....	2835	1 05
	W. H. Anderson & Co..	Reports .....	2836	5 75
	Amer. Society of Mech. Engr .....	Croton aqueducts ....	2837	4 00
	The Architectural An- nual .....	Architectural Annual..	2838	2 63
	Am. Journal of Science.	Reprints .....	2839	4 75
	Amer. Luxfer Prism Co.	Two plates prisms....	2840	50 00
	Bausch & Lomb Opt. Co	Supplies .....	2841	234 91
	Boston Book Co.....	Year book of pharmacy	2842	10 00
	P. P. Capprone & Bro..	Frieze and steel.....	2843	27 20
	G. Cramer Dry Plate Co	Plates .....	2844	3 12
	Compressed Air .....	Compressed air.....	2845	2 00
	Eng. News Pub. Co....	Proceedings .....	2846	2 00
	Foote Mineral Co.....	Coll No. 44 Pharmaceu- tical .....	2847	30 00
	Edward S. Field.....	Acct. Concilia Bibilo- graphica .....	2848	21 98
	W. & L. E. Gurley....	Levels, rods, taps, etc.	2849	64 65
	L. H. Goddard.....	Stationery, stamps, etc.	2850	1 75
	Emil Greiner .....	Hard glass tubes, etc..	2851	16 65
	Harbison & Walker Co.	Mosquesite, etc.....	2852	20 30
	Geo. P. Humphrey....	Monograph .....	2853	2 70
	Library Bureau .....	Book supports.....	2854	45 00
	D. W. McGlenen.....	List names.....	2855	10 00
	Minneapolis Public Li- brary .....	Fish Lincoln literature	2856	3 25



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
April 5	R. P. Palmer.....	Coal oil tester.....	2857	\$6 50
	Queen & Co.....	Thermometers and bar- ometer .....	2858	47 65
	Statute Law Book Co..	Statutes at large.....	2859	25 27
	Sherwood Mfg. Co.....	Cutters, bolts, etc.....	2860	6 45
	E. H. Sargent & Co....	Sieves, gauge, etc.....	2861	8 18
	G. E. Stechert.....	Books, etc.....	2862	58 32
	Edw. Thompson Co....	Encyclopedia of law....	2863	6 00
	Josephine E. Tilden....	Am. Algæ. Century V.	2864	10 00
	Westinghouse El. & Mfg. Co .....	Motor .....	2865	420 00
	John Wiley & Sons.....	Books .....	2866	196 92
6	E. P. Hawley.....	Machinist labor.....	2867	64 20
	James Ryan .....	" .....	2868	53 00
5	Webb Stationery & Ptg. Co .....	Supplies .....	2869	20 35
	Weston Elect. Inst. Co.	Voltmeter .....	2870	14 42
6	Ernest Pierce .....	Machinist labor.....	2871	7 80
	L. B. Wing.....	Expenses as trustee....	2872	23 65
8	T. A. Panter.....	Janitor services .....	2873	15 00
	F. K. Luke.....	Salary to April 8, 1901.	2874	13 30
	R. M. Rownd, P. M....	Postage .....	2875	20 00
9	Cols. Citizens Telephone Co .....	Phone rentals and toll service .....	2876	90 50
	Columbus Gas Co.....	March gas .....	2877	219 00
	B. A. Taylor.....	V. M. lands records....	2878	9 00
	R. M. Rownd, P. M .	Postage deposit.....	2879	25 00
	R. M. Rownd, P. M .	2 thousand stamped en- velopes .....	2880	42 40
	M. N. Prange.....	Machinist labor.....	2881	3 90
9	F. R. Kunkle.....	Student labor.....	2882	3 23
10	Col. Water Works.....	Water rents.....	2883	805 80
	M. B. Earnhart.....	Attorney fee.....	2884	20 00
	A. J. Finney, Clerk....	Costs V. M. L. cases...	2885	148 76
11	H. G. Knoderer.....	T. N. fees.....	2886	10 00
12	Jno. T. Mack .....	Expenses as trustee....	2887	18 20
13	T. R. Evans.....	Machinist labor.....	2888	58 85
14	Alexis Cone.....	April salary .....	2889	187 50
15	E. P. Hawley.....	Machinist labor.....	2890	26 10
	Lillie Weeks .....	April salary.....	2891	5 00
23	Lily Weeks .....	Week salary.....	2892	5 00
27	Mildred Waters .....	April salary.....	2893	20 00
	C. H. Woodruff .....	" .....	2894	65 00
	Dan E. Ball .....	" .....	2895	30 00
	Mary W. Rice.....	" .....	2896	25 00
	W. D. Gibbs.....	" .....	2897	160 00
	Frank Ruhlen .....	" .....	2898	66 66
26	H. A. Weber.....	" .....	2899	225 00
27	A. E. Vinson .....	" .....	2900	85 00
	Geo. W. Knight.....	" .....	2901	250 00
	A. H. Tuttle.....	" .....	2902	90 00
	Charles B. Sayre.....	" .....	2903	25 00
	A. M. Bleile.....	" .....	2904	225 00
	C. B. Morrey.....	" .....	2905	110 00
	M. Dresbach .....	" .....	2906	50 00
	H. C. Lord.....	" .....	2907	200 00
	W. A. Kellerman.....	" .....	2908	225 00
	J. H. Schaffner.....	" .....	2909	110 00
26	Walter Fischer .....	" .....	2910	25 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
April 27	Harriet Burr .....	April salary.....	2911	\$25 00
	F. J. Tyler .....	" " .....	2912	25 00
	Wm. McPherson .....	" " .....	2913	225 00
	S. A. Norton.....	" " .....	2914	125 00
	W. E. Henderson.....	" " .....	2915	100 00
	H. C. Gore.....	" " .....	2916	60 00
	C. P. Linville.....	" " .....	2917	30 00
	W. L. Dubois.....	" " .....	2918	30 00
	C. H. Kimberly.....	" " .....	2919	30 00
	Harry Hance.....	" " .....	2920	10 00
	C. N. Brown.....	" " .....	2921	225 00
	C. E. Sherman.....	" " .....	2922	110 00
	Wm. L. Davies.....	" " .....	2923	50 00
	E. E. Harrold .....	" " .....	2924	85 00
	N. P. Oglesby.....	" " .....	2925	45 00
	Edward Orton, Jr.....	" " .....	2926	190 00
	S. V. Peppel.....	" " .....	2927	60 00
	P. G. Bowman.....	" " .....	2928	140 00
	C. P. Souther.....	" " .....	2929	90 00
	J. N. Bradford.....	" " .....	2930	190 00
	Thomas E. French.....	" " .....	2931	110 00
	Thomas K. Lewis.....	" " .....	2932	80 00
	Silas Martin .....	" " .....	2933	100 00
	F. C. Clark.....	" " .....	2934	180 00
	S. F. Smyser.....	" " .....	2935	30 00
	F. M. Hamilton.....	" " .....	2936	80 00
	F. C. Caldwell.....	" " .....	2937	160 00
	S. S. Edmunds.....	" " .....	2938	60 00
25	J. P. Covan.....	" " .....	2939	70 00
27	H. C. Nidy.....	" " .....	2940	12 50
	A. C. Barrows.....	" " .....	2941	225 00
	J. R. Taylor.....	" " .....	2942	120 00
	W. H. Siebert .....	" " .....	2943	150 00
	C. S. Prosser .....	" " .....	2944	160 00
	Jno. A. Bownocker.....	" " .....	2945	140 00
	W. C. Mills.....	" " .....	2946	35 00
24	E. A. Eggers.....	" " .....	2947	225 00
27	C. W. Mesloh.....	" " .....	2948	130 00
	E. H. Moore.....	" " .....	2949	20 00
	J. R. Smith .....	" " .....	2950	225 00
	A. W. Hodgman.....	" " .....	2951	120 00
	W. S. Elden.....	" " .....	2952	80 00
	W. R. Lazenby.....	" " .....	2953	225 00
	F. E. Sanborn.....	" " .....	2954	200 00
	W. H. Renck.....	" " .....	2955	90 00
	W. A. Knight.....	" " .....	2956	110 00
	C. P. Crowe.....	" " .....	2957	85 00
	S. C. Derby.....	" " .....	2958	225 00
	W. F. Hunter .....	" " .....	2959	250 00
	J. H. Collins.....	" " .....	2960	20 00
	J. A. Shauck.....	" " .....	2961	17 50
	E. B. Kinkead.....	" " .....	2962	120 00
	W. H. Page.....	" " .....	2963	140 00
	E. O. Randall.....	" " .....	2964	70 00
	James S. Hine.....	" " .....	2965	95 00
	Olive Jones .....	" " .....	2966	135 00
	H. N. Townsend .....	" " .....	2967	55 00
	Gertrude Kellicott .....	" " .....	2968	55 00
	Maude Jeffrey .....	" " .....	2969	55 00
	Lucy Allen .....	" " .....	2970	55 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
April 27	C. B. Guittard.....	April salary.....	2971	\$55 00
	R. D. Bohannon.....	" ".....	2972	225 00
	Geo. W. McCoard.....	" ".....	2973	160 00
	C. L. Arnold.....	" ".....	2974	100 00
	K. D. Swartzel.....	" ".....	2975	100 00
	S. E. Rasor.....	" ".....	2976	70 00
	J. F. Travis.....	" ".....	2977	30 00
	v. E. Davis.....	" ".....	2978	15 00
	Wm. T. Magruder.....	" ".....	2979	225 00
	E. A. Hitchcock.....	" ".....	2980	165 00
	A. F. Hall.....	" ".....	2981	62 50
	E. G. Bailey.....	" ".....	2982	18 00
	Geo. W. Frost.....	" ".....	2983	30 00
	N. W. Lord.....	" ".....	2984	200 00
	E. E. Sommermeier.....	" ".....	2985	70 00
	Gustav Bruder.....	" ".....	2986	20 00
	Frank A. Ray.....	" ".....	2987	200 00
	G. B. Kauffman.....	" ".....	2988	200 00
	W. A. Landacre.....	" ".....	2989	80 00
26	W. H. Scott.....	" ".....	2990	225 00
27	A. E. Davies.....	" ".....	2991	30 00
	C. P. Linhart.....	" ".....	2992	160 00
	C. M. Berryman.....	" ".....	2993	75 00
	D. C. Huddleson.....	" ".....	2994	50 00
	B. F. Thomas.....	" ".....	2995	225 00
	J. E. Boyd.....	" ".....	2996	120 00
	F. E. Kester.....	" ".....	2997	80 00
	H. B. Brooks.....	" ".....	2998	20 00
	J. V. Denney.....	" ".....	2999	225 00
	W. L. Graves.....	" ".....	3000	100 00
	H. C. Allen.....	" ".....	3001	120 00
	G. H. McKnight.....	" ".....	3002	100 00
	W. E. Bohn.....	" ".....	3003	30 00
	B. L. Bowen.....	" ".....	3004	225 00
	C. A. Bruce.....	" ".....	3005	110 00
	R. T. Jones.....	" ".....	3006	20 00
	D. S. White.....	" ".....	3007	180 00
	C. B. Frederick.....	" ".....	3008	90 00
	O. V. Brumley.....	" ".....	3009	60 00
	Paul Fischer.....	" ".....	3010	180 00
	Herbert Osborn.....	" ".....	3011	225 00
	J. S. Hine.....	" ".....	3012	95 00
	F. L. Landacre.....	" ".....	3013	95 00
	E. D. Ball.....	" ".....	3014	30 00
25	W. O. Thompson.....	" ".....	3015	416 67
27	K. H. Duncan.....	" ".....	3016	58 33
	E. D. Cockins.....	" ".....	3017	58 33
25	C. E. Steeb.....	" ".....	3018	65 00
27	Jno. Ricketts.....	" ".....	3019	45 00
	James Kelley.....	" ".....	3020	30 00
	E. R. Hubler.....	" ".....	3021	25 00
	W. C. Weir.....	" ".....	3022	25 00
	Thos. E. Osburn.....	" ".....	3023	45 00
	Chas. Hicks.....	" ".....	3024	45 00
	Ray Barton.....	" ".....	3025	20 00
	G. A. Goodspeed.....	" ".....	3026	40 00
	J. H. Brown.....	" ".....	3027	25 00
	J. H. Brown.....	" ".....	3028	15 00
	D. D. Geren.....	" ".....	3029	40 00
	Fred Fleischer.....	" ".....	3030	40 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
April 27	W. Whitestone.....	April salary.....	3031	\$40 00
	Harry Chantler .....	" " .....	3032	40 00
	W. Townsell .....	" " .....	3033	25 00
	G. C. Denny.....	" " .....	3034	40 00
	M. N. Cook.....	" " .....	3035	40 00
	Wm. Conklin .....	" " .....	3036	40 00
	J. C. Perry .....	" " .....	3037	12 50
	H. M. Templin.....	" " .....	3038	40 00
	W. C. McCracken.....	" " .....	3039	150 00
	C. M. Low.....	" " .....	3040	54 17
	Wm. Standley .....	" " .....	3041	50 00
	Benj. LeBay.....	" " .....	3042	50 00
	Thomas Boude.....	" " .....	3043	50 00
	W. H. Case .....	" " .....	3044	50 00
	Marion Peck .....	" " .....	3045	40 00
	Geo. R. Rose .....	" " .....	3046	65 00
	Jos. A. Garretson.....	" " .....	3047	37 50
	C. L. E. Moore.....	" " .....	3048	15 00
	N. O. Ford.....	" " .....	3049	25 00
	R. A. Abbott.....	" " .....	3050	30 00
	Sarah Barrows .....	" " .....	3051	15 00
	J. P. Gordy.....	" " .....	3052	225 00
	Thos. F. Hunt .....	" " .....	3053	250 00
	John W. Decker.....	" " .....	3054	140 00
22	M. J. Kellenberger.....	Services during April ..	3055	25 00
27	V. H. Davis .....	April salary .....	3056	58 33
	O. E. Jennings.....	For salary as florist ..	3057	33 00
29	E. E. Sommermeier.....	Balance of April salary ..	3058	5 00
	Lillie Weeks .....	Janitress work .....	3059	5 00
	R. M. Rownd.....	Postage deposit .....	3060	20 00
	J. R. Chamberlain.....	April salary .....	3061	30 00
May 4	Columbus Gas Co.....	April gas .....	3062	118 05
6	Lily Weeks .....	Salary .....	3063	5 00
	F. R. West .....	Books .....	3064	18 73
25	J. R. Chamberlain.....	May salary .....	3065	30 00
	Sarah Barrows .....	" " .....	3066	15 00
	Roy A. Abbott.....	" " .....	3067	30 00
	N. O. Ford .....	" " .....	3068	25 00
	C. L. E. Moore.....	" " .....	3069	15 00
	J. A. Garretson.....	" " .....	3070	37 50
	Geo. R. Rose.....	" " .....	3071	65 00
	Marion Peck .....	" " .....	3072	40 00
	W. H. Case .....	" " .....	3073	50 00
	Thomas Boude .....	" " .....	3074	50 00
	Benj. LeBay.....	" " .....	3075	50 00
	Wm. Standley .....	" " .....	3076	50 00
	C. M. Low .....	" " .....	3077	54 17
	W. C. McCracken .....	" " .....	3078	150 00
	H. M. Templin.....	" " .....	3079	40 00
	J. C. Perry .....	" " .....	3080	12 50
	Wm. Conklin .....	" " .....	3081	40 00
	M. N. Cook.....	" " .....	3082	40 00
	G. C. Denny.....	" " .....	3083	40 00
	W. Townsell .....	" " .....	3084	25 00
	Harry Chantler .....	" " .....	3085	40 00
	W. Whitestone.....	" " .....	3086	40 00
	Fred Fleischer .....	" " .....	3087	40 00
	D. D. Geren .....	" " .....	3088	40 00
	J. H. Brown .....	" " .....	3089	15 00
	J. H. Brown.....	" " .....	3090	25 00



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
May 25	G. A. Goodspeed.....	May salary.....	3091	\$40 00
	Ray Barton .....	" " .....	3092	20 00
	Charles Hicks .....	" " .....	3093	45 00
	Thomas E. Osburn.....	" " .....	3094	45 00
	W. C. Weir.....	" " .....	3095	25 00
	Edith R. Hubler.....	" " .....	3096	25 00
	James Kelley.....	" " .....	3097	30 00
	John Ricketts .....	" " .....	3098	45 00
23	C. E. Steeb.....	" " .....	3099	65 00
25	Edith D. Cockins.....	" " .....	3100	58 33
25	K. H. Duncan.....	" " .....	3101	58 33
17	Alexis Cope.....	" " .....	3102	187 50
25	W. O. Thompson .....	" " .....	3103	416 67
	E. D. Ball.....	" " .....	3104	30 00
	F. L. Landacre.....	" " .....	3105	95 00
	J. S. Hine .....	" " .....	3106	95 00
	Herbert Osborn .....	" " .....	3107	225 00
	Paul Fischer .....	" " .....	3108	180 00
	O. V. Brumley .....	" " .....	3109	60 00
	C. B. Frederick.....	" " .....	3110	90 00
	D. S. White.....	" " .....	3111	180 00
	R. T. Jones .....	" " .....	3112	20 00
	Charles A. Bruce .....	" " .....	3113	110 00
	B. A. Bowen .....	" " .....	3114	225 00
	W. L. Bohn.....	" " .....	3115	30 00
	G. H. McKnight .....	" " .....	3116	100 00
	H. C. Allen.....	" " .....	3117	115 00
	W. L. Graves.....	" " .....	3118	100 00
	J. V. Denney.....	" " .....	3119	225 00
	H. B. Brooks.....	" " .....	3120	20 00
	F. E. Kester.....	" " .....	3121	80 00
	J. E. Boyd.....	" " .....	3122	120 00
	B. F. Thomas.....	" " .....	3123	225 00
	D. C. Huddleson.....	" " .....	3124	50 00
	Clara M. Berryman.....	" " .....	3125	75 00
	C. P. Linhart.....	" " .....	3126	160 00
	A. E. Davies.....	" " .....	3127	30 00
	W. H. Scott.....	" " .....	3128	225 00
	W. A. Landacre .....	" " .....	3129	80 00
	Geo. B. Kauffman.....	" " .....	3130	200 00
	Frank A. Ray.....	" " .....	3131	200 00
	Gustav Bruder .....	" " .....	3132	20 00
	E. E. Somermeier.....	" " .....	3133	75 00
	N. W. Lord.....	" " .....	3134	200 00
	Geo. W. Frost .....	" " .....	3135	30 00
	E. G. Bailey.....	" " .....	3136	18 00
	A. F. Hall.....	" " .....	3137	62 50
	E. A. Hitchcock .....	" " .....	3138	165 00
	Wm. T. Magruder.....	" " .....	3139	225 00
	W. E. Davis.....	" " .....	3140	15 00
	J. F. Travis.....	" " .....	3141	30 00
	S. E. Rasor.....	" " .....	3142	70 00
	K. D. Swartzel.....	" " .....	3143	100 00
	C. L. Arnold.....	" " .....	3144	100 00
	G. W. McCoard.....	" " .....	3145	160 00
	R. D. Bohannon .....	" " .....	3146	225 00
	C. B. Guittard.....	" " .....	3147	55 00
	Lucy Allen.....	" " .....	3148	55 00
	Maude Jeffrey .....	" " .....	3149	55 00
	Gertrude Kellicott .....	" " .....	3150	55 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
May 25	Harriet N. Townshend..	May salary.....	3151	\$55 00
	Olive Jones.....	" "	3152	135 00
	E. O. Randall.....	" "	3153	70 00
	W. H. Page.....	" "	3154	140 00
	E. B. Kinkead.....	" "	3155	120 00
	J. A. Shauck.....	" "	3156	17 50
	J. H. Collins.....	" "	3157	20 00
	W. F. Hunter.....	" "	3158	250 00
	S. C. Derby.....	" "	3159	225 00
	C. P. Crowe.....	" "	3160	85 00
	W. A. Knight.....	" "	3161	110 00
	W. H. Renck.....	" "	3162	90 00
	F. E. Sanborn.....	" "	3163	200 00
	V. H. Davis.....	" "	3164	58 33
	W. R. Lazenby.....	" "	3165	225 00
	W. S. Elden.....	" "	3166	80 00
	A. W. Hodgman.....	" "	3167	120 00
	J. R. Smith.....	" "	3168	225 00
	E. H. Moore.....	" "	3169	20 00
	C. W. Mesloh.....	" "	3170	130 00
	E. A. Eggers.....	" "	3171	225 00
	W. C. Mills.....	" "	3172	35 00
	J. A. Bownocker.....	" "	3173	140 00
	Chas. S. Prosser.....	" "	3174	160 00
	W. S. Siebert.....	" "	3175	150 00
	J. R. Taylor.....	" "	3176	120 00
	A. C. Barrows.....	" "	3177	225 00
	H. C. Nidy.....	" "	3178	12 50
	J. P. Covan.....	" "	3179	70 00
	S. S. Edmunds.....	" "	3180	60 00
	F. C. Caldwell.....	" "	3181	160 00
	F. M. Hamilton.....	" "	3182	80 00
	J. P. Gordy.....	" "	3183	225 00
	S. F. Smyser.....	" "	3184	30 00
	F. C. Clark.....	" "	3185	180 00
	Silas Martin.....	" "	3186	100 00
	Thos. K. Lewis.....	" "	3187	80 00
	Thos. E. French.....	" "	3188	110 00
	J. N. Bradford.....	" "	3189	190 00
	C. P. Souther.....	" "	3190	90 00
	P. G. Bowman.....	" "	3191	140 00
	S. V. Peppel.....	" "	3192	60 00
	Edward Orton Jr.....	" "	3193	190 00
	N. P. Oglesby.....	" "	3194	45 00
	E. E. Harrold.....	" "	3195	85 00
	Wm. L. Davies.....	" "	3196	50 00
	C. E. Sherman.....	" "	3197	110 00
	C. N. Brown.....	" "	3198	225 00
	Harry Hance.....	" "	3199	10 00
	C. H. Kimberly.....	" "	3200	30 00
	W. L. Dubois.....	" "	3201	30 00
	C. P. Linville.....	" "	3202	30 00
	H. C. Gore.....	" "	3203	60 00
	W. E. Henderson.....	" "	3204	100 00
	S. A. Norton.....	" "	3205	125 00
	Wm. McPherson.....	" "	3206	225 00
	F. J. Tyler.....	" "	3207	25 00
	O. E. Jennings.....	" "	3208	45 00
	Harriet Burr.....	" "	3209	25 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
May 25	Walter Fischer .....	May salary .....	3210	\$25 00
	J. H. Schaffner .....	" " .....	3211	110 00
	W. A. Kellerman .....	" " .....	3212	225 00
	H. C. Lord .....	" " .....	3213	200 00
	M. Dresbach .....	" " .....	3214	50 00
	C. B. Morrey .....	" " .....	3215	110 00
	A. M. Bleile .....	" " .....	3216	225 00
	Chas. B. Sayre .....	" " .....	3217	25 00
	A. H. Tuttle .....	" " .....	3218	90 00
	Geo. W. Knight .....	" " .....	3219	250 00
	A. E. Vinson .....	" " .....	3220	85 00
	H. A. Weber .....	" " .....	3221	225 00
	Frank Ruhlen .....	" " .....	3222	66 66
	John W. Decker .....	" " .....	3223	140 00
	W. D. Gibbs .....	" " .....	3224	160 00
	Thos. F. Hunt .....	" " .....	3225	250 00
	Mildred Waters .....	" " .....	3226	20 00
	C. H. Woodruff .....	" " .....	3227	65 00
	Mary W. Rice .....	" " .....	3228	25 00
	Dan E. Ball .....	" " .....	3229	30 00
9	W. D. Guilbert, Aud. St.	Copies V. M. surveys ..	3230	3 50
10	F. R. West .....	Books .....	3231	104 99
11	James Ryan .....	Work as machinist .....	3232	58 58
13	Lilly Weeks .....	Janitress service .....	3233	5 00
14	Young & Barnes .....	Examining V. M. rec'ds	3234	10 00
16	Thos. J. Godfrey .....	Expenses at meeting .....	3235	18 40
	W. S. Dutton .....	Services as architect .....	3236	1092 50
17	L. B. Wing .....	Expenses at meeting .....	3237	2 90
	Fred Brewer .....	Labor .....	3238	42 75
	Lillie Weeks .....	Salary .....	3239	5 00
	F. R. Kunkle .....	Student labor .....	3240	15 20
18	Lucy Allen, Editor .....	Advertisement in the Key .....	3241	15 00
17	Frank A. Bohn .....	Work library .....	3242	17 50
	E. G. Bailey .....	Labor .....	3243	2 55
	Gustav Bruder .....	Money advanced .....	3244	1 00
	J. N. Bradford .....	Lantern slides .....	3245	11 10
17	Perla G. Bowman .....	Money advanced .....	3246	4 80
	F. J. Boynton .....	Student labor .....	3247	1 38
	C. H. Case .....	Labor on campus .....	3248	1 12
18	W. E. Cook .....	Labor on campus .....	3249	24 87
	Alex Cope .....	Expenses .....	3250	103 35
17	W. F. Coover .....	Lab. work .....	3251	14 40
	E. T. Clapp .....	Student labor .....	3252	62
	T. R. Evans .....	Machinist labor .....	3253	56 10
	Amelia Ehrling .....	Janitress work .....	3254	14 00
	Grace Eagleson .....	Clerical service .....	3255	8 70
	M. Dresbach .....	Department supplies .....	3256	8 38
18	R. M. Rownd, P. M. ....	Stamped envelopes .....	3257	21 20
17	J. N. Frank .....	Student labor .....	3258	1 06
	Robt. F. Griggs, Mngr. .	Adv. in Naturalist .....	3259	5 00
	J. P. Gordy .....	Expenses .....	3260	12 70
	H. J. Girard .....	Guide service .....	3261	2 00
17	Arthur Geren .....	Supplies .....	3262	10 68
	Mabel Huddleson .....	Library work .....	3263	9 75
	Laurel Hill .....	Clerical service .....	3264	15 00
	F. H. Haskett .....	Making slides .....	3265	20 40
	W. R. Judson .....	Student labor .....	3266	1 75
	C. E. Jackson .....	April salary .....	3267	20 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
May 17	W. F. Kern.....	Laboratory work .....	3268	\$10 20
	C. P. Linhart.....	Dept. supplies .....	3269	5 40
	F. C. Long.....	Guide service .....	3270	6 75
	Max W. Morse.....	Work in museum .....	3271	3 00
18	John Marling .....	Campus work .....	3272	6 87
17	M. W. Mumma.....	Laboratory work .....	3273	14 00
	E. R. Minns.....	Student labor .....	3274	1 25
	Wm. McPherson .....	Expenses, etc .....	3275	15 03
	Wm. Morelan .....	Carpenter work .....	3276	10 35
	H. C. Nidy.....	Labor .....	3277	1 63
17	Sidney A. Norton.....	Books .....	3278	3 02
	Edw. Orton, Jr.....	Cash advanced .....	3279	2 40
	T. A. Pauter.....	Janitor work .....	3280	15 75
	J. C. Perry.....	Labor .....	3281	6 82
	C. C. Poindexter.....	Clerical work .....	3282	5 50
	Charles Pixler .....	Wheeling coal .....	3283	41 25
	Susie Ryan .....	Labor work of James Ryan .....	3284	22 55
	Wilbur Sample .....	Digging trench .....	3285	12 00
	W. C. Smith.....	Work in law library... ..	3286	9 95
	Mason Snow .....	Work in law library... ..	3287	9 45
	J. W. Shaw.....	Work in law library... ..	3288	9 70
	Edith Seymour .....	Music for gym. ....	3289	14 00
	J. A. Stiver.....	Guide service .....	3290	9 75
	F. O. Snyder.....	Labor .....	3291	2 00
	P. M. Smith.....	Guide service .....	3292	1 75
	C. E. Steeb.....	Clerical and notorial work .....	3293	15 00
	R. B. Sosman.....	Lab. work .....	3294	15 90
	Roy Thompson .....	Guide service .....	3295	7 50
	B. F. Thomas.....	Money advanced .....	3296	3 41
	C. S. Van Dyke.....	Fellow .....	3297	60 00
	H. E. Williams.....	Labor .....	3298	5 40
	S. J. Weaver.....	Labor on campus .....	3299	1 34
	C. H. Woodruff.....	Climbing flag staff .....	3300	5 00
17	W. A. Warner.....	Carpenter work .....	3301	2 10
	C. B. Young.....	Repairing clarionet ...	3302	1 25
18	Helen R. Powell.....	Clerical service .....	3303	24 70
	W. E. Severn.....	Fees at vet. clinic.....	3304	27 84
20	Am. Dist. Tel'gph Co...	Rent of night watch- man boxes .....	3305	65 00
	F. H. Ashwell.....	Screen and holder .....	3306	2 00
	Samuel Butler & Co....	Candles, etc .....	3307	5 94
	Buckeye Brass Fdy.....	Castings .....	3308	2 63
	Geo. A. Beall & Co....	Notions .....	3309	50
	Berlin Printing Co....	Reprints .....	3310	12 50
	Blackwood, Green & Co.	Tank, locks and chairs ..	3311	2 84
	Bucher Engr. Co.....	Half tones etc .....	3312	49 72
	The Cols. Mdse. Co....	Crayons .....	3313	6 00
	The Cols. Lith. Co....	Bonds .....	3314	35 00
	Cols. M. M. Supply Co.	Rubber valves .....	3315	1 14
	Cols. Wire & Iron Wks.	Guards .....	3316	3 00
	Capital City Mach. Wks.	Eye bolts .....	3317	1 55
	Cols. Bolt Works.....	Machine bolts .....	3318	1 50
	J. W. Coulson & Co....	Paint and painting ....	3319	11 00
	Cols. Sport. Goods Co..	Supplies .....	3320	2 05
	Cols. Photo. Sup. Co....	Ivy mounts .....	3321	6 50
	H. Cole Co.....	Thumb tacks .....	3322	5 70
	Cent. Ohio Paper Co...	Paper .....	3323	2 28



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
May 20	Cols. Supply Co .....	Supplies .....	3324	\$15 25
	Champlin Printing Co..	Printing bulletins, etc.	3325	1,118 20
	W. J. Davidson & Co...	Feed, etc .....	3326	46 50
	Andrew Dobbie .....	Selesia, silk and hooks	3327	2 60
	E. Doddington & Co....	Lumber .....	3328	14 79
	Engelke & Bigelow.....	Freight and cartage ....	3329	40 39
	Electric Supply Co.....	Wire and plug .....	3330	5 30
	Erner & Hopkins Co....	Supplies .....	3331	17 01
	Franklin Toliet Sup. Co.	Towel supply .....	3332	34 22
	P. Hayden S. H. Co....	Castings .....	3333	4 80
	Fred J. Heer.....	Printing catalogue ....	3334	453 50
	Chas. B. Hood.....	Coburb brushes .....	3335	9 00
	N. C. Hager.....	Groceries .....	3336	53 25
	Hann & Adair.....	Printing .....	3337	54 25
	Joyce Fish Co.....	Fish for dissection ....	3338	6 00
	Joyce & Osborn, Agts..	Stenographer fees ....	3339	17 25
	E. C. Kissinger.....	Slack lime .....	3340	43 86
	Kauffman-Lattimer Co..	Drugs and chemicals ..	3341	367 20
	Kimball & Matthews...&	Cameras and supplies ..	3342	128 14
	Kelton & Converse ....	Lumber, etc .....	3343	45 97
	M. C. Lilley & Co.....	Flags, markers, etc ..	3344	40 25
	Oscar S. Lear.....	Paper .....	3345	2 65
	Murray City Coal Co...	Coal .....	3346	955 08
	W. H. Miller Co.....	Supplies .....	3347	154 87
	Logan McCormick.....	Frames .....	3348	7 20
	McDonald & Steube....	B. Polish .....	3349	1 00
	McClelland & Co.....	Books .....	3350	11 40
20	Nitschke Bros .....	Paper and printing ..	3351	34 50
	Ohio Furniture Co.....	Flat top desk.....	3352	14 00
	Payne, McDonald & Co.	Hardware .....	3353	3 44
	Penna Fuel Co.....	Coal .....	3354	7 77
	Ben D. Potts.....	Supplies .....	3355	5 48
	J. C. Porterfield & Co..	Supplies .....	3356	1 80
	The Peoples' Store.....	Kitchen table.....	3357	1 65
	James Penn .....	Hauling .....	3358	6 35
	The Ruggles-Gale Co...	Approp. ledger.....	3359	12 50
	A. H. Smythe.....	Paints .....	3360	1 50
	Reeves Bros .....	Locker hasps.....	3361	2 25
	Harry E. Smith.....	Printing .....	3362	31 55
	Andrew Spittal .....	Labor .....	3363	17 16
	J. H. & F. A. Sells & Co.	Harness .....	3364	44 00
	Schoedinger, Fearn & Co	Cord .....	3365	1 90
	F. O. Schoedinger.....	Funnel and box .....	3366	2 80
	Spahr & Glenn.....	Paper .....	3367	2 50
	Standard Oil Co.....	Oil and gasoline.....	3368	50 71
	Seraphim Blk. Book Co.	Binding .....	3369	114 70
	Taylor, Williams & Co.	Coal .....	3370	70 72
	Terry Engraving Co...	Cuts .....	3371	19 20
	Tracy, Wells & Co.....	Supplies .....	3372	23 70
	Troy Laundry .....	Laundering .....	3373	3 04
	The Tallmadge H. Co..	Hardware .....	3374	23 53
	C. A. Williams.....	Lantern slides, etc....	3375	44 65
	Mildred Waters .....	Ribbon for typewriter..	3376	85
	F. W. Wallis.....	Mag. glass.....	3377	50
	J. M. & W. Westwater.	Brackets .....	3378	1 00
	H. Braun, Sons & Co...	Lard oil.....	3379	4 35
	Amer. Aristotype Co...	Paper .....	3380	20 65
	American Machinist ...	Advertising .....	3381	62 40

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
May 20	Am. Architect and Bld. News Co .....	Advertising .....	3382	\$26 25
	W. H. Anderson & Co. .	Reports .....	3383	22 00
	R. R. Bowker.....	Catalogues .....	3384	5 00
	Wm. L. Black.....	Book .....	3385	2 50
	Boston Book Co.....	Colliery engineer.....	3386	6 40
	Boston Book Bind. Co. .	Binder .....	3387	1 00
	Baker & Adamson Chemical Co .....	Chemicals .....	3388	34 41
	J. Bishop & Co.....	Remaking crucibles, etc .....	3389	15 71
	Boston Athenæum.....	Catalogues .....	3390	20 00
	James G. Biddle.....	Galvanometer .....	3391	38 65
	Baker & Co.....	Platinum .....	3392	45 20
	Bausch & Lomb Opt. Co.	Scientific instruments, etc .....	3393	58 46
	Cassell & Co.....	Book .....	3394	10 19
	Cornell University ....	Dante catalogue.....	3395	6 00
	Columbia Law Review ..	Advertisement .....	3396	5 00
	Creamery Pkg. Mfg. Co. .	Lip caps.....	3397	28 00
	H. E. Hooper.....	Century atlas.....	3398	7 50
	A. S. Clark.....	Spencer U. S.....	3399	7 50
	Central Electric Co.....	Circuit jack and plug..	3400	3 00
	J. Carbutt .....	Plates .....	3401	162 00
	De La Mar Printing & Publishing Co .....	Pamphlets .....	3402	56 80
	The Denisonian .....	Advertisement .....	3403	10 00
	Elec. World & Engineer.	“ .....	3404	39 00
	C. H. Evans & Co.....	“ .....	3405	5 00
	Eimer & Amend .....	Apparatus .....	3406	45 96
	D. M. Ferry & Co.....	Seeds .....	3407	17 76
	W. & L. E. Gurley.....	Transit .....	3408	162 00
	Emil Greiner .....	Glass tubes.....	3409	2 25
	Peter Henderson & Co. .	Lawn mowers.....	3410	71 00
	Johns Hopkins Press... .	American Workman..	3411	2 60
	Francis P. Harper.....	Books .....	3412	23 40
	E. A. Kinsey Co.....	Supplies .....	3413	5 82
	Julius Kuhlman .....	Almanac .....	3414	5 34
	Library Bureau .....	Ink and cards.....	3415	10 50
	B. F. McCurdy.....	Frogs .....	3416	3 50
	N. F. McGirr.....	Books and pamphlets..	3417	83
	Michigan Brush Co.....	Brushes .....	3418	35 00
	Masury, Young & Co... .	Oil and lantern.....	3419	21 00
	The Macmillan Co.....	Bailey's Cyclo.....	3420	5 00
	T. H. McAllister.....	Lantern slides.....	3421	6 00
	The Ohio Pottery Co... .	Potters' clay.....	3422	2 84
	Palmer Elec. Inst. Co... .	Dynamometer .....	3423	19 50
	S. F. Patterson.....	Publication .....	3424	3 50
	Queen & Co.....	X-ray tubes.....	3425	18 35
	J. T. Ryerson & Son....	Plates .....	3426	2 52
	Richards & Co.....	Cylinder and tube.....	3427	11 40
	Street Ry. Pub. Co.....	Publications .....	3428	1 05
	D. M. Sanger.....	Druggists' circular....	3429	3 00
	F. J. Stokes Mach. Co. .	Punches .....	3430	2 00
	F. J. Schleede.....	Blue books.....	3431	2 50
	E. H. Sargent & Co.....	Crucible, spatula, etc.	3432	13 35
	Standard Chain Co.....	Iron .....	3433	1 61
	E. H. Sargent & Co.....	Apparatus .....	3434	20 98
	Statute Law Book Co... .	Documents .....	3435	263 45

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
May 20	G. E. Stechert.....	Books .....	3436	\$83 30
	John Wiley & Sons.....	Books .....	3437	35 09
	Webb Sta. & Ptg. Co....	Supplies and books....	3438	30 75
	The Warren Co.....	Belt cement.....	3439	2 50
25	C. C. Wilcox.....	Refund of fees.....	3440	5 00
27	Lily Weeks .....	Janitress work.....	3441	5 00
	R. M. Rownd, P. M....	Postage stamps.....	3442	56 00
	R. M. Rownd, P. M....	Deposit for postage....	3443	20 00
28	Ohio Nat. Bank.....	Int. on O. S. U. bonds	3444	900 00
	Louis F. Kieseewetter..	" " " "	3445	1,687 50
	Hayden-Clinton Nat. Bk.	" " " "	3446	4,650 00
	H. E. Williams.....	Fees .....	3447	15 00
29	Clara M. Berryman....	June salary .....	3448	75 00
	Dan E. Ball.....	May salary.....	3449	20 00
	Ernst M. Lied.....	Services in band .....	3450	15 00
May 29	John Henry Barrows...	Hotel expenses.....	3451	3 00
June 1	Lily Weeks .....	Salary .....	3452	5 00
	Hayden-Clinton Nat. Bank .....	Payment of cert. of indebtedness .....	3453	10,000 00
22	W. U. Telegraph Co ..	Telegrams .....	3454	7 11
3	B. B. Wells .....	Service in band.....	3455	15 00
4	Col's St. Ry Co .....	Tickets .....	3456	5 00
	John T. Mack .....	Expenses as trustee....	3457	10 61
4	M. J. Kellenberger.....	Services in dom. econ. omy .....	3458	40 00
5	A. C. Schott .....	Services in band.....	3459	15 00
6	G. R. Bott .....	Labor .....	3460	75
	E. G. Bailey .....	Student labor.....	3461	30
	Wm. Chambert .....	Labor .....	3462	2 13
	E. T. Clapp .....	Student labor.....	3463	63
	W. E. Cook .....	Labor on campus.....	3464	25 62
	F. E. Dunn.....	Student labor.....	3465	3 94
	Sam'l C. Derby .....	Book .....	3466	1 10
	Amelia Ehring.....	Services .....	3467	16 00
	T. R. Evans .....	Machinist labor .....	3468	55 83
	Ida Fischer .....	Library work.....	3469	2 00
	C. B. Frederick .....	Dept. supplies.....	3470	16 15
	John Frank .....	Work in green-house..	3471	1 28
	J. A. Folsom.....	Labor on campus.....	3472	1 25
	R. W. Funk .....	Labor in store-room..	3473	33 07
	Harley J. Gerard.....	Guide service.....	3474	6 50
	Arthur Geren .....	Supplies .....	3475	70
	J. A. Gauch.....	Work in library.....	3476	2 75
	Mabel Huddleson .....	Library work.....	3477	6 50
	C. L. Henderson .....	Cleaning skeletons....	3478	13 50
	E. P. Hapgood .....	Student labor.....	3479	2 68
	F. M. Huddleson .....	Student labor.....	3480	3 15
	Laurel Hill .....	Clerical service.....	3481	20 00
	F. H. Haskett .....	Labor .....	3482	6 20
	A. S. Harrington .....	Student labor.....	3483	5 20
	C. E. Jackson .....	Scholarship salary....	3484	20 00
	F. R. Kunkle .....	Student labor.....	3485	10 10
	J. F. Kramer .....	Addressing envelopes..	3486	1 00
	F. C. Long.....	Guide service.....	3487	8 25
	Max W. Morse.....	Student labor .....	3488	8 55
	Wm. T. Magruder.....	Money advanced.....	3489	3 50
	E. R. Minns .....	Student labor.....	3490	8 37
	B. D. Nicola .....	Library work.....	3491	5 40
	Chas. Pixler .....	Wheeling coal.....	3492	40 50



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
June 6	Helen Powell .....	Clerical service .....	3493	\$21 70
	T. A. Panter .....	Janitor work .....	3494	12 90
	Bertha Patterson .....	Library work .....	3495	5 40
	C. C. Poindexter .....	Student labor .....	3496	7 00
	Mary Roney .....	Library work .....	3497	2 90
	J. A. Stier .....	Guide service .....	3498	7 25
	P. M. Smith .....	Guide service .....	3499	50
	J. W. Shaw .....	Library work .....	3500	9 65
	Mason Snow .....	Library work .....	3501	9 40
	W. C. Smith .....	Student labor .....	3502	11 30
	Roy Thompson .....	Guide service .....	3503	6 38
	E. C. Turner .....	Expenses .....	3504	27 00
	C. S. VanDyke .....	Salary as "fellow" ..	3505	30 00
	D. S. White .....	Postage stamps .....	3506	20 00
	F. R. West .....	Books .....	3507	67 02
	F. E. Wynne .....	Student labor .....	3508	6 80
	Sam'l Weaver .....	Campus work .....	3509	1 25
	J. S. Abbott & Co .....	Hardware .....	3510	1 10
	Amer. Sewer Pipe Co..	Damaged pipe .....	3511	3 00
	Bucher Eng. & Mfg Co.	Half tones .....	3512	3 18
	Berlin Printing Co ...	Dairy circulars .....	3513	33 00
	W. M. Brown .....	Clinch cutters .....	3514	1 50
	C. H. Birk .....	Oil tank .....	3515	5 60
	J. L. Brown .....	Carriages .....	3516	4 25
	Col's Bank Note Co ...	Diplomas .....	3517	97 50
	Cherington Ptg & Eng.			
	Co .....	Autograph and stamp .	3518	1 75
	Col's Carriage Hdwe Co.	Castings .....	3519	1 43
	J. P. Carlile .....	Plaster paris .....	3520	2 50
	Central Ohio Paper Co.	Manilla copying .....	3521	1 20
	Col's Brass Co .....	Bolts .....	3522	1 60
	Capital City Mach Wks.	Supplies .....	3523	9 46
	Columbus Machine Co.	Castings, etc .....	3524	191 71
	Champlin Ptg Co .....	Printing, etc .....	3525	48 25
	Col's Photo Supply Co.	Supplies .....	3526	11 60
	Col's Supply Co .....	Supplies .....	3527	27 90
	W. J. Davidson .....	Feed .....	3528	13 95
	Engelke & Bigelow .....	Freight and cartage ...	3529	20 45
	Thos. M. Earl .....	Supplies .....	3530	10 05
	Erner & Hopkins .....	Supplies .....	3531	23 30
	Family Steam Laundry.	Laundry .....	3532	94
	J. J. Gheen .....	Plastering .....	3533	3 70
	P. Hayden Sad. & Hdwe			
	Co .....	Cubes .....	3534	17 01
	Hann & Adair .....	Printing .....	3535	3 70
	Kelton & Converse ...	Lumber .....	3536	1 74
	Kimball & Mathews ...	Supplies .....	3537	3 52
	Kauffman-Latimer Co..	Chemicals, etc .....	3538	99 29
	M. C. Lilley & Co .....	Swords and badges ...	3539	41 00
	Murray City Coal Co..	Coal .....	3540	390 76
	W. H. Miller Co .....	Pulley .....	3541	2 07
	McClelland & Co .....	Ink .....	3542	85
	Nitschke Bros .....	Printing .....	3543	15 10
	Ohio State Journal Co.	Advertisement .....	3544	8 70
	James Penn .....	Hauling .....	3545	7 20
	Schoedinger, Fearn &			
	Co .....	Polish lead .....	3546	2 90



## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
June 6	Harry E. Smith.....	Envelopes .....	3547	\$1 90
	Spahr & Glenn .....	Programs .....	3548	6 25
	Standard Oil Co .....	Engine oil .....	3549	9 41
	Seraphim Blank Book Co .....	Binding .....	3550	46 05
	Tallmadge Hdwe Co... ..	Hardware .....	3551	26 34
	W. H. Anderson & Co..	Reports .....	3552	5 50
	Amer. Entomological Society .....	Proceedings .....	3553	15 50
	James G. Biddle .....	Supplies .....	3554	237 67
	R. R. Bowker .....	Index, etc .....	3555	8 50
	Boston Book Co.....	Register .....	3556	87 00
	Bausch & Lomb Opt. Co .....	Slides, etc .....	3557	3 00
	Cumulative Index Co... ..	Index .....	3558	5 00
	Delaware Ptg & Pub. Co .....	Publications .....	3559	6 72
	Direct Separator Co....	Separators .....	3560	93 00
	Jos. Dyson & Sons.....	Forgings .....	3561	10 00
	Eng. News Pub. Co....	Advertisement .....	3562	27 20
	Enquirer Co .....	Advertisement .....	3563	9 40
	Elect. Appliance Co....	Supplies .....	3564	11 13
	G. P. Engelhard & Co..	Western druggist ..	3565	1 30
	Florence Machine Co..	Scale .....	3566	112 50
	Hammond Type Writer Co .....	Ribbons .....	3567	1 50
	Hubbell Printing Co... ..	Specifications .....	3568	37 50
	Otto Kuntze .....	Minerals .....	3569	12 25
	Kemp & Burpee Mfg. Co .....	Wheel .....	3570	5 00
	J. McLain Smith.....	Expenses as trustee ..	3571	17 30
	Library Bureau .....	Supplies .....	3572	9 00
	Leader Printing Co....	Advertisement .....	3573	9 40
	Municipal Eng. Co.....	Directory .....	3574	5 00
	Ohio National Bank....	Foreign money order .	3575	17 25
	A. G. McCall.....	Book .....	3576	5 40
	Milwaukee Pub. Library .....	Calalogue .....	3577	3 50
	Noyes, Platt & Co....	Art annual .....	3578	6 00
	Philip Nell .....	Printing .....	3579	1 29
	E. L. Powers & Co....	Directory .....	3580	5 00
	Queen & Co.....	Lenses .....	3581	2 78
	The Strobridge Litho. Co. ....	Commissions .....	3582	10 00
	Standard Chain Co....	Iron .....	3583	8 92
	Francis H. Smith.....	Leather filler .....	3584	4 20
	Stumpf & Steurer.....	Bond advertisement ..	3585	24 00
	Sherwood Mfg. Co....	Cleaner head .....	3586	21 00
	F. J. Stokes Mach. Co.	Set punches .....	3587	3 00
	G. E. Stechert.....	Books .....	3588	126 24
	The University Press... ..	Reprints .....	3589	18 70
	Vermont Farm Mach. Co .....	Freight .....	3590	5 69
	Western Elect Co....	Supplies .....	3591	12 06
	Webb Sta. & Ptg Co... ..	Disbursement book ..	3592	27 50
	C. P. Souther.....	June salary .....	3593	90 00
	C. P. Souther.....	Money advanced .....	3594	2 10
7	O. V. Brumley.....	June salary .....	3595	60 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901 June 7	W. E. Severn.....	Vet. clinic fees.....	3596	\$48 97
	J. A. Bownocker.....	June salary .....	3597	140 00
	E. D. Ball.....	June salary .....	3598	30 00
	C. C. Heacock.....	Labor .....	3599	3 00
18	G. H. McKnight.....	June salary .....	3600	100 00
	H. C. Allen.....	" " .....	3601	115 00
	Dan E. Ball.....	" " .....	3602	30 00
	Mary W. Rice.....	" " .....	3603	25 00
	C. H. Woodruff.....	" " .....	3604	65 00
25	Mildred Waters .....	" " .....	3605	20 00
14	C. L. E. Moore.....	" " .....	3606	15 00
	J. R. Chamberlain.....	" " .....	3607	30 00
	Sarah Barrows .....	" " .....	3608	15 00
	R. A. Abbott.....	" " .....	3609	30 00
	N. O. Ford.....	" " .....	3610	25 00
18	Jos. A. Garretson.....	" " .....	3611	37 50
15	Geo. R. Rose.....	" " .....	3612	65 00
18	Marion Peck .....	" " .....	3613	40 00
	Thomas Boude.....	" " .....	3614	50 00
18	Benj. LeBay .....	" " .....	3615	50 00
	Wm. Standley .....	" " .....	3616	50 00
	C. M. Low.....	" " .....	3617	54 17
	Wm. C. McCracken....	" " .....	3618	150 00
	H. M. Templin.....	" " .....	3619	40 00
19	J. C. Perry.....	" " .....	3620	12 50
18	Thomas E. Osburn.....	" " .....	3621	45 00
	M. N. Cook.....	" " .....	3622	40 00
	G. C. Denny.....	" " .....	3623	40 00
	Wash Townsell .....	" " .....	3624	25 00
	Harry Chantler .....	" " .....	3625	40 00
	W. Whitestone .....	" " .....	3626	40 00
	D. D. Geren.....	" " .....	3627	40 00
	J. H. Brown.....	" " .....	3628	25 00
	J. H. Brown.....	" " .....	3629	15 00
	G. A. Goodspeed.....	" " .....	3630	40 00
	Ray Barton .....	" " .....	3631	20 00
	Chas. Hicks .....	" " .....	3632	45 00
	W. C. Weir.....	" " .....	3633	25 00
	Edith R. Hubler.....	" " .....	3634	25 00
12	W. E. Bohn.....	" " .....	3635	30 00
18	James Kelly .....	" " .....	3636	30 00
	John Ricketts .....	" " .....	3637	45 00
12	C. E. Steeb.....	" " .....	3638	65 00
18	E. D. Cockins.....	" " .....	3639	58 33
	K. H. Duncan.....	" " .....	3640	58 33
12	Alexis Cope .....	" " .....	3641	187 50
	W. O. Thompson.....	" " .....	3642	416 67
	F. L. Landacre.....	" " .....	3643	95 00
18	Herbert Osborn .....	" " .....	3644	225 00
	Paul Fischer .....	" " .....	3645	180 00
12	C. B. Frederick.....	" " .....	3646	90 00
17	D. S. White.....	" " .....	3647	180 00
	R. T. Jones.....	" " .....	3648	20 00
	C. A. Bruce.....	" " .....	3649	110 00
	B. L. Bowen.....	" " .....	3650	225 00
18	W. L. Graves.....	" " .....	3651	100 00
	J. V. Denney.....	" " .....	3652	225 00
14	H. B. Brooks.....	" " .....	3653	20 00
	F. E. Kester.....	" " .....	3654	80 00

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
June 14	J. E. Boyd.....	June salary .....	3655	\$120 00
18	B. F. Thomas.....	" " .....	3656	225 00
	D. C. Huddleson.....	" " .....	3657	50 00
17	C. P. Linhart.....	" " .....	3658	160 00
18	A. E. Davies.....	" " .....	3659	30 00
17	W. H. Scott.....	" " .....	3660	225 00
18	W. A. Landacre.....	" " .....	3661	80 00
	Geo. B. Kauffman.....	" " .....	3662	200 00
8	S. A. Norton.....	" " .....	3663	125 00
	A. W. Hodgman.....	" " .....	3664	120 00
17	Frank A. Ray.....	" " .....	3665	200 00
	Gustav Bruder .....	" " .....	3666	20 00
	E. E. Sommermeier.....	" " .....	3667	75 00
18	N. W. Lord.....	" " .....	3668	200 00
	Geo. W. Frost.....	" " .....	3669	30 00
	E. G. Bailey.....	" " .....	3670	18 00
	A. F. Hall.....	" " .....	3671	62 50
	E. A. Hitchcock.....	" " .....	3672	165 00
	Wm. T. Magruder.....	" " .....	3673	225 00
	W. E. Davis.....	" " .....	3674	15 00
12	J. F. Travis.....	" " .....	3675	30 00
	S. E. Rasor.....	" " .....	3676	70 00
17	K. D. Swartzel.....	" " .....	3677	100 00
	C. L. Arnold.....	" " .....	3678	100 00
	G. W. McCoard.....	" " .....	3679	160 00
	R. D. Bohannon.....	" " .....	3680	225 00
10	C. B. Guittard.....	" " .....	3681	55 00
14	Lucy Allen .....	" " .....	3682	55 00
	Maude Jeffrey .....	" " .....	3683	55 00
	Gertrude Kellicott .....	" " .....	3684	55 00
	Harriett N. Townshend.	" " .....	3685	55 00
	Olive Jones .....	" " .....	3686	135 00
	E. O. Randall.....	" " .....	3687	70 00
	W. H. Page.....	" " .....	3688	140 00
	E. B. Kinkead.....	" " .....	3689	120 00
	J. A. Shauck.....	" " .....	3690	17 50
	J. H. Collins.....	" " .....	3691	20 00
	W. F. Hunter.....	" " .....	3692	250 00
18	S. C. Derby.....	" " .....	3693	225 00
17	C. P. Crowe.....	" " .....	3694	85 00
18	W. A. Knight.....	" " .....	3695	110 00
	W. H. Renck.....	" " .....	3696	90 00
	F. E. Sanborn.....	" " .....	3697	200 00
17	V. H. Davis.....	" " .....	3698	58 33
18	W. R. Lazenby.....	" " .....	3699	225 00
14	W. S. Elden.....	" " .....	3700	80 00
10	W. O. Thompson.....	Money advanced .....	3701	5 60
8	Harvey J. Gerard.....	Guide service .....	3702	1 38
18	J. R. Smith.....	June salary .....	3703	225 00
11	E. H. Moore.....	" " .....	3704	20 00
13	C. W. Mesloh.....	" " .....	3705	130 00
	E. A. Eggers.....	" " .....	3706	225 00
18	W. C. Mills.....	" " .....	3707	35 00
	C. S. Prosser.....	" " .....	3708	160 00
	W. H. Siebert.....	" " .....	3709	150 00
	J. R. Taylor.....	" " .....	3710	120 00
	A. C. Barrows.....	" " .....	3711	225 00
11	F. C. Caldwell.....	Money advanced .....	3712	4 78
18	H. C. Nidy.....	June salary .....	3713	12 50

## STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1901				
June 18	J. P. Covan.....	June salary .....	3714	\$70 00
10	S. S. Edmunds.....	" "	3715	60 00
14	F. C. Caldwell.....	" "	3716	160 00
18	F. M. Hamilton.....	" "	3717	80 00
17	J. P. Gordy.....	" "	3718	225 00
12	S. F. Smyser.....	" "	3719	30 00
	F. C. Clark.....	" "	3720	180 00
18	Silas Martin.....	" "	3721	100 00
	Thos. K. Lewis.....	" "	3722	80 00
	Thos. E. French.....	" "	3723	110 00
15	J. N. Bradford.....	" "	3724	190 00
17	P. G. Bowman.....	" "	3725	140 00
14	S. V. Peppel.....	" "	3726	60 00
	Edward Orton, Jr.....	" "	3727	190 00
18	E. E. Harrold.....	" "	3728	85 00
	Wm. L. Davies.....	" "	3729	50 00
	C. E. Sherman.....	" "	3730	110 00
	C. N. Brown.....	" "	3731	225 00
	Harry Hance.....	" "	3732	10 00
13	C. H. Kimberly.....	" "	3733	30 00
	W. L. Dubois.....	" "	3734	30 00
	C. P. Linville.....	" "	3735	30 00
	H. C. Gore.....	" "	3736	60 00
	W. E. Henderson.....	" "	3737	100 00
	Wm. McPherson.....	" "	3738	225 00
	F. J. Tyler.....	" "	3739	25 00
18	O. E. Jennings.....	" "	3740	45 00
15	Harriett Burr.....	" "	3741	25 00
	Walter Fischer.....	" "	3742	25 00
	J. H. Schaffner.....	" "	3743	110 00
18	W. A. Kellerman.....	" "	3744	225 00
	J. W. Smith.....	" "	3745	100 00
	H. C. Lord.....	" "	3746	200 00
14	M. Dresbach.....	" "	3747	50 00
	C. B. Morrey.....	" "	3748	110 00
	A. M. Bleile.....	" "	3749	225 00
13	C. B. Sayre.....	" "	3750	25 00
18	A. H. Tuttle.....	" "	3751	90 00
	Geo. W. Knight.....	" "	3752	250 00
17	A. E. Vinson.....	" "	3753	85 00
	H. A. Weber.....	" "	3754	225 00
18	Frank Ruhlen.....	" "	3755	66 66
17	John W. Decker.....	" "	3756	140 00
	W. D. Gibbs.....	" "	3757	160 00
18	Thos. F. Hunt.....	" "	3758	250 00
10	W. E. Severn.....	Fees at vet. clinic.....	3759	20 67
	W. D. Gibbs.....	Money advanced.....	3760	7 00
11	Columbus Gas Co.....	May gas.....	3761	177 82
12	R. W. Thompson.....	30½ hours as guide.....	3762	3 82
13	Frank C. Long.....	Guide service.....	3763	3 32
	J. A. Stiver.....	Guide service.....	3764	4 90
14	Sidney A. Stedman.....	Names and addresses.....	3765	2 00
	Sarah Barrows.....	Balance of salary.....	3766	15 00
15	Frank A. Bohn.....	112 hours' work in li- brary.....	3767	14 00
18	W. O. Thompson.....	Honorariums.....	3768	200 00
	R. B. Sosman.....	60 hours' work in chem. laboratory....	3769	9 30
20	Geo. H. Porter.....	W. J. Bryan prize.....	3770	17 20



## STATEMENT II — Concluded.

Date	To whom paid	For what purpose	No	Amount
1901				
June 20	L. B. Wing.....	Expenses as trustee June 14 and 18, 1901 .....	3771	\$6 65
	E. B. Kinkead.....	Balance of salary .....	3772	95 00
	W. H. Page.....	Balance of salary .....	3773	190 00
22	M. A. Matthews.....	Guide service .....	3774	1 50
26	C. E. Jackson.....	Store room cards .....	3775	6 86
22	Olive Jones .....	Money advanced .....	3776	5 00
24	C. C. Poindexter.....	Department labor .....	3777	4 50
25	C. E. Jackson.....	June salary .....	3778	28 00
27	Dan E. Ball .....	Salary as janitor .....	3779	20 00
	Total .....	.....		\$337,401 45
1901				
June 30	Balance in hands of treasurer...	.....		11,306 99

## STATEMENT III.

In compliance with section 7 of the *Organic Act*, passed by the Legislature of Ohio, May 1, 1878, (Bates' Annotated Ohio Statutes, sec. 4105-41) which requires the list of "the number of professors, officers, teachers and other employes, and the compensation of each, to be annually reported," I submit the following:

Employees.	Position.	Salary.
William Oxley Thompson.	President .....	\$5,000 00
W. H. Scott.....	Professor of Philosophy .....	2,250 00
W. R. Lazenby.....	“ horticulture and forestry...	2,250 00
Josiah R. Smith.....	“ Greek language & literature .....	2,250 00
Henry A. Weber.....	“ agricultural chemistry .....	2,250 00
Ben. F. Thomas.....	“ physics .....	2,250 00
Geo. W. Knight.....	“ history and political science .....	2,500 00
R. Daniel Bohannon.....	“ mathematics .....	2,250 00
Herbert Osborn .....	“ zoology and entomology..	2,250 00
Ernst A. Eggers.....	“ German language, literature .....	2,250 00
C. Newton Brown.....	“ civil engineering .....	2,250 00
Albert M. Bleile.....	“ anatomy and physiology...	2,250 00
Wm. A. Kellerman.....	“ botany .....	2,250 00
Thos. F. Hunt.....	“ agriculture .....	2,250 00
Samuel C. Derby.....	“ Latin language and literature .....	2,250 00
Nathaniel W. Lord.....	“ metallurgy and mineralogy .....	2,000 00
Frank E. Sanborn.....	Director of industrial department.....	2,000 00
Allen C. Barrows.....	Professor of English literature .....	2,250 00
Joseph V. Denney.....	“ rhetoric and Eng'sh lang'ge .....	2,250 00
Benj. L. Bowen.....	“ Romance languages .....	2,250 00
W. F. Hunter.....	Dean of the law faculty.....	2,500 00
Geo. B. Kauffman.....	Professor of pharmacy .....	2,000 00
J. P. Gordy.....	“ education .....	2,250 00
Wm. T. Magruder.....	“ mechanical engineering....	2,250 00
Edward Orton, Jr.....	Director school of ceramics.....	2,000 00
Frank A. Ray.....	Professor mining engineering .....	2,000 00
Jos. N. Bradford.....	Professor of drawing .....	2,000 00
Wm. McPherson.....	“ chemistry .....	2,250 00
Geo. W. McCoard.....	Associate professor mathematics .....	1,600 00
Sidney A. Norton.....	Lecturer in general chemistry.....	1,250 00
F. C. Caldwell.....	Associate professor electrical eng'ering.	1,600 00
Henry C. Lord.....	Director observatory .....	2,000 00
C. E. Sherman.....	Assistant professor civil engineering....	1,100 00
E. A. Hitchcock.....	Associate professor experim'al engineering	1,650 00
W. D. Gibbs.....	“ “ of agronomy .....	1,600 00
C. W. Mesloh.....	“ “ German .....	1,300 00
David S. White.....	Professor veterinary medicine .....	1,800 00
Thos. E. French.....	Assistant professor of drawing .....	1,100 00
F. C. Clark.....	Professor of economics .....	1,800 00
Olive B. Jones.....	Librarian .....	1,350 00
William Henry Renck....	Instructor in pattern making, etc.....	900 00
William A. Knight.....	Instructor in machine work.....	1,400 00
Charles Philip Crowe.....	Instructor in forging .....	850 00
J. E. Boyd.....	Assistant professor physics .....	1,200 00
Karl D. Swartzel.....	“ “ mathematics .....	1,000 00
W. L. Graves.....	“ “ rhetoric .....	1,000 00
Jas. S. Hine.....	Assistant professor of entomology .....	950 00
A. E. Vinson.....	“ in agricultural chemistry.....	950 00
Charles B. Morrey.....	Assistant professor anatomy & physiology	1,100 00
John Wright Decker.....	Associate professor dairying .....	1,400 00
E. E. Somermeier.....	Assistant in metallurgy and mineralogy..	750 00
Arthur W. Hodgman.....	Associate professor classic languages...	1,200 00
Frank Ruhlen.....	Assistant in agriculture .....	800 00
J. A. Bownocker.....	Associate professor geology .....	1,400 00
W. H. Siebert.....	“ “ European history ..	1,500 00

## STATEMENT III — Continued.

Employees	Position	Salary
Paul Fischer .....	Professor of pathological anatomy.....	\$1,800 00
C. L. Arnold.....	Assistant professor of mathematics .....	1,000 00
Walter Landacre .....	Assistant professor of pharmacy .....	800 00
E. E. Harold.....	Storekeeper .....	1,020 00
C. B. Frederick.....	Assistant professor veterinary medicine..	900 00
Thos. K. Lewis.....	Assistant in drawing .....	800 00
Charles A. Bruce.....	Assistant professor of French .....	1,100 00
F. L. Landacre.....	Assistant professor of zoology .....	950 00
S. V. Peppel.....	Assistant in ceramics .....	600 00
William E. Henderson.....	Assistant professor analytical chemistry..	1,000 00
Harriet Townshend.....	Assistant in library .....	550 00
Frederick E. Kester.....	Instructor in physics .....	800 00
J. H. Schaffner.....	Assistant professor botany .....	1,100 00
Geo. W. Frost.....	Fellow in mechanical engineering .....	300 00
S. S. Edmunds.....	Assistant in electrical engineering.....	600 00
Herbert Charles Gore.....	Assistant in chemistry .....	600 00
Maud Jeffrys.....	Assistant in library .....	550 00
Gertrude Kellicott .....	" " .....	550 00
G. B. Guittard.....	" " .....	550 00
Lucy Allen .....	" " .....	550 00
F. K. Luke.....	Florist .....	463 30
C. P. Linhart.....	Director physical training .....	1,600 00
Perla G. Bowman.....	Associate professor domestic science .....	1,400 00
Cornelia P. Souther.....	Associate professor domestic art .....	900 00
J. R. Taylor.....	Assistant professor Eng. literature .....	1,200 00
Francis M. Hamilton.....	" in philosophy and education.....	800 00
Clara Maud Berryman.....	Associate director physical training.....	750 00
M. Dresbach.....	Associate in anatomy and physiology.....	500 00
S. E. Rasor.....	" mathematics .....	300 00
J. F. Travis.....	Fellow in mathematics .....	300 00
Homer Charles Price.....	Assistant in horticulture and forestry....	485 00
W. H. Page.....	Professor of law.....	1,400 00
E. B. Kinkead.....	" " .....	1,200 00
D. F. Pugh.....	" " .....	760 00
E. O. Randall.....	" " .....	700 00
J. H. Collins.....	" " .....	200 00
John A. Shauck.....	" " .....	175 00
A. H. Tuttle.....	Instructor in American history .....	700 00
Don C. Huddleson.....	" gymnasium .....	500 00
Delbert A. Crowner.....	Student assistant in butter making .....	100 00
Elisha Smith .....	" " dairying .....	100 00
W. E. Bohn.....	Fellow in rhetoric .....	300 00
Dan. L. Ball.....	Emerson McMillin fellow in astronomy..	300 00
Walter Fischer .....	Fellow in botany .....	250 00
Alexis Cope .....	Secretary .....	2,250 00
Carl E. Steeb.....	Accountant .....	780 00
Katharine H. Duncan.....	Executive clerk .....	700 00
Edith D. Cockins.....	Registrar .....	700 00
W. C. McCracken.....	Chief engineer .....	1,800 00
Chas. Low .....	Assistant engineer .....	650 00
Wm. Standley .....	" .....	600 00
Geo. R. Rose .....	Plumber .....	780 00
John Ricketts .....	Watchman .....	540 00
James Kelley.....	Lawnkeeper .....	300 00
Edith R. Hubler.....	Stenographer .....	300 00
Benj. LaBay.....	Steam fitter .....	600 00
O. E. Jennings.....	Florist .....	123 00
Vernon H. Davis.....	Assistant in horticulture .....	215 00
Wash. Townsel .....	Janitor .....	300 00
G. A. Goodspeed.....	" .....	480 00
Henry Chantler .....	" .....	480 00

## STATEMENT III – Concluded.

Employees	Position	Salary
Arthur Chantler .....	Janitor .....	\$236 25
J. H. Brown .....	" .....	480 00
M. N. Cook .....	" .....	480 00
D. D. Geren .....	" .....	480 00
Wm. Whitestine .....	" .....	480 00
G. C. Denny .....	" .....	480 00
E. H. Bailey .....	" .....	180 00
H. C. Nidy .....	" .....	125 00
Wm. Weir .....	Elevator attendant .....	250 00
W. C. Mills .....	Curator of the archæological collection .....	420 00
A. G. McCall .....	Janitor .....	200 00
Thomas Boude .....	First fireman .....	450 00
W. E. Case .....	Second fireman .....	360 00
Marion Peck .....	Helper .....	400 00
Harriet Burr .....	Fellow in botany .....	250 00
C. P. Linville .....	" chemistry .....	300 00
H. Hance .....	Laboratry assistant in chemistry .....	100 00
W. L. Davies .....	Assistant civil engineering .....	500 00
C. E. Jackson .....	Ceramic scholarship .....	200 00
Silas Martin .....	Assistant in drawing .....	1,000 00
Mary W. Rice .....	McMillin fellowship in economics .....	250 00
S. F. Smyser .....	Fellow in economics .....	300 00
J. P. Covan .....	Electrician .....	840 00
Chas. S. Prosser .....	Associate professor geology .....	1,600 00
E. H. Moore .....	Student assistant in German .....	200 00
W. S. Elden .....	Assistant professor of Latin .....	800 00
C. L. E. Moore .....	Student assistant in mathematics .....	150 00
A. F. Hall .....	Machinst .....	750 00
N. P. Oglesby .....	Assistant storekeeper .....	450 00
H B. Brooks .....	Fellow in physics .....	200 00
G. H. McKnight .....	Assistant professor of rehtoric .....	1,000 00
H. C. Allen .....	Asst. prof. rehtoric and public speaking .....	1,150 00
R. T. Jones .....	Student assistant in French .....	200 00
O. V. Brumley .....	Assistant in veterinary medicine .....	500 00
Joseph Garretson .....	Helper to plumber .....	400 00
J. C. Perry .....	Janitor .....	125 00
T. E. Osburn .....	" .....	120 00
W. Conklin .....	" .....	360 00
Earl Conway .....	Helper .....	105 00
C. H. Woodruff .....	Carpenter .....	780 00
F. J. Tyler .....	Gardener .....	300 00
Ray Barton .....	Helper .....	135 00
Chas. Hicks .....	Janitor .....	307 75
D. E. Ball .....	Janitor .....	40 00
Sarah Barrows .....	Student assistent in German .....	150 00
Fred Fleischer .....	Janitor .....	200 00
Mildred Waters .....	Stenographer .....	200 00
T. E. Osborn .....	Watchman .....	270 00
J. R. Chamberlain .....	Assistant in drawing .....	300 00
W. E. Davis .....	Assistant in mathematics .....	150 00
Gustav Bruder .....	Band leader .....	200 00
A. E. Davies .....	Assistant in philosophy .....	300 00
E. D. Ball .....	Fellow in zoology .....	300 00
H. M. Templin .....	Janitor .....	480 00
N. O. Ford .....	Fellow in metallurgy, etc. .....	250 00
R. A. Abbott .....	" " rhetoric .....	300 00



COLUMBUS, OHIO, September 25, 1901.

*To the Board of Trustees, Ohio State University:*

The finance committee in obedience to your instructions has examined the accounts and vouchers of L. F. Kieseewetter, treasurer of the university, for the fiscal year ending, June 30, 1901, and has carefully compared them with the accounts and vouchers in the hands of the secretary, and hereby certify that said report is correct.

D. M. MASSIE,

J. McLAIN SMITH,

PAUL JONES,

*Finance Committee.*

# REPORT OF RECEIPTS AND DISBURSEMENTS OF APPROPRIATION MADE BY ACT OF CONGRESS OF AUGUST 30, 1890.

Report of treasurer of said institution to the secretary of agriculture and the secretary of the interior, of amount received under the act of congress of August 30, 1890, in aid of college of agriculture and the mechanic arts, and of the disbursements thereof, to and including June 30, 1901.

Balance on hand July 1, 1900 .....	\$198 31
Date of receipt of installment for 1900-01, July 11, 1900, amount....	25,000 00
Total available for the year ended June 30, 1901.....	\$25,198 31
Disbursements thereof for and during the year ended June 30, 1901:	
Agriculture, as per Schedule A.....	\$4,184 07
Mechanic arts, as per Schedule B.....	8,341 69
English language, as per Schedule C.....	1,011 59
Mathematical science, as per Schedule D.....	1,185 96
Natural or physical science, as per Schedule E.....	9,515 35
Economic science, as per Schedule F.....	597 53
Total expended during year .....	\$24,836 19
Balance remaining unexpended July 1, 1901.....	\$362 12

I hereby certify the above account is correct and true, and, together with the schedules hereunto attached, truly represents the details of expenditures for the period and by the institution named, and that said expenditures were applied only to instruction in agriculture, the mechanic arts, the English language, and the various branches of mathematical, physical, natural, and economic science, with special reference to their applications in the industries of life, and to the facilities for such instruction.

L. F. KIESEWETTER,  
*Treasurer.*

## SCHEDULE A.

Disbursements for instruction in agriculture and for facilities for such instruction during the year ended June 30, 1901.

Names of instructors	Subjects taught for which paid from "Morrill Fund."	Amount.
I. For salaries of instructors:		
Thomas F. Hunt, Professor....	Agriculture .....	\$250 00
W. D. Gibbs, Professor.....	" .....	150 00
Jno. W. Decker, Asst. Prof....	" .....	140 00
Frank Ruhlen, Assistant.....	" .....	66 66
H. A. Weber, Professor.....	Agricultural chemistry .....	225 00
A. E. Vinson, Assistant.....	" .....	85 00
W. R. Lazenby, Professor.....	Horticulture .....	225 00
H. C. Price, Assistant.....	" .....	58 33
D. S. White, Professor.....	Veterinary medicine .....	180 00
Paul Fischer, Professor.....	" .....	180 00
C. B. Frederick, Asst. Prof....	" .....	90 00
O. V. Brumley, Asst. Prof.....	" .....	60 00
II. For facilities, as follows:		
Text-books and reference books.....		\$32 39
Apparatus, machinery, stock, and material, as follows:		
Agriculture.		
Soil tester, \$5.00; slides, \$35.00; cuts of animals, \$12.35.....		\$52 35
Seeds, \$32.85; feed, \$120.60; laboratory supplies, \$39.47.....		192 92
Farm implements and machinery .....		60 24
Agricultural Chemistry.		
Apparatus and chemical supplies .....		\$740 00
Veterinary Medicine.		
Skeletons, \$40.00; feed, \$172.59; instruments, \$33.07 .....		\$245 66
Hospital supplies, \$86.27; harness, \$42.25 .....		128 52
Horticulture.		
Feed for animals, \$100.00; plants, \$71.25 .....		\$171 25
Dairy Laboratory.		
Pasteurizer, \$24.55; dairy machinery, \$205.60.....		\$230 15
Milk and other dairy supplies.....		620 60
Total .....		\$4,184 07

## SCHEDULE B.

Disbursements for instruction in Mechanic Arts and for facilities for such instruction during the year ending June 30, 1901.

Names of instructors	Subjects taught for which paid from "Morrill Fund."	Amount.
<b>I. For salaries of instructors:</b>		
C. N. Brown, Professor.....	Civil engineering .....	\$225 00
C. E. Sherman, Asst. Professor.	" " .....	110 00
F. A. Ray, Professor.....	Mine engineering .....	200 00
W. L. Davies, Assistant.....	Civil engineering .....	50 00
Edward Orton, Jr., Professor..	Ceramics .....	190 00
S. V. Peppel, Assistant.....	" .....	50 00
J. N. Bradford, Professor.....	Drawing .....	190 00
T. E. French, Assistant.....	" .....	110 00
T. K. Lewis, Assistant.....	" .....	80 00
Silas Martin, Assistant.....	" .....	100 00
F. C. Caldwell, Asso. Prof.....	Electrical engineering .....	150 00
S. S. Edmonds, Assistant.....	" " .....	60 00
J. P. Covan, Electrician.....	" " .....	35 00
F. E. Sanborn, Professor.....	Industrial arts .....	200 00
W. M. Rench, Instructor.....	" " .....	90 00
C. P. Crowe, Instructor.....	" " .....	85 00
W. A. Knight, Instructor.....	" " .....	110 00
W. T. Magruder, Professor.....	Mechanical engineering .....	225 00
E. A. Hitchcock, Asst. Prof.....	" " .....	165 00
A. F. Hall, Machinist.....	" " .....	82 50
Geo. W. Frost, Assistant.....	" " .....	30 00
N. O. Ford, Assistant.....	" " .....	25 00
<b>II. For facilities, as follows:</b>		
Text-books and reference books.....		\$261 94
Apparatus, machinery, stock, and materials, as follows:		
Mechanical Engineering.		
Pipe covering, \$8.13; thermometers, \$36.75; instruments, \$40.00; scales, \$28.53 .....		\$113 41
Exp. engine, \$148.35; fittings, \$130.71; gauges, \$64.04; tr. cloth, \$17.41 .....		360 51
Exp. boiler, \$261.75; indicators, \$69.62; steam pump, \$675.00.....		1,006 37
Hardware and tools, \$54.93; castings, \$208.81.....		263 74
Civil Engineering.		
B. P. paper, \$16.96; field equipment, \$94.23; instruments, \$602.55...		\$713 74
Creameries.		
Balances, \$84; machinery, \$114.36; chem. sup. \$371.59; water bath, \$9.00 .....		\$578 95
Coke, \$17.05; crucibles, \$110.66 .....		127 71
Drawing.		
Instruments, \$251.21; photo supplies, \$208.02; burnishers, \$6.50....		\$465 73
Boards and mounts, \$98.00; slides, \$67.75; casts, \$16.15.....		181 90



## SCHEDULE B—Concluded.

	Amount.
Mine Engineering.	
Protractors, \$43.99; tools and hardware, \$2.25; instruments, \$17.00..	\$63 24
Electrical Engineering.	
Hardware and tools, \$31.36; castings, \$19.96; wire, \$18.35.....	\$69 67
Electric supplies, \$194.69; Instruments, \$7.50; connectors, \$13.26....	215 45
Volt meters, \$63.00; controller, \$119.40; machinery, \$132.50.....	314 90
Industrial Arts.	
Paints, 3.40; iron and steel, \$204.30; guages, \$5.67; sand, \$5.97 ....	\$219 34
Hardware and tools, \$265.12; castings, \$28.29; lumber, \$313.60....	607 01
Machinery, \$70.59; smelting coal, \$5.93; exp. engine, \$159.06.....	235 58
Total .....	\$8,341 69

## SCHEDULE C.

Disbursements for instruction in English Language and for facilities for such instruction during the year ended June 30 1901.

Names of instructors	Subjects taught for which paid from "Morrill Fund."	Amount.
I. For salaries of instructors:		
A. C. Barrows, Professor.....	English language .....	\$225 00
J. R. Taylor, Asst. Professor...	" " .....	120 00
J. V. Denney, Professor.....	" " .....	225 00
W. L. Graves Asst Professor...	" " .....	100 00
H. C. Allen, Asst. Professor...	Oratory .....	115 00
Geo. H. McKnight, Asst. Prof..	English language .....	100 00
W. E. Bohn, Assistant.....	" " .....	30 00
II. For facilities, as follows:		
Text-books and reference books .....		\$96 57
Apparatus, machinery, stock, and materials, as follows:		
Total .....		\$1,011 59

## SCHEDULE D.

Disbursements for instruction in Mathematical Science and for facilities for such instruction during the year ended June 30, 1901.

Names of instructors	Subjects taught for which paid from "Morrill Fund."	Amount.
I. For salaries of instructors:		
Henry C. Lord, Professor.....	Astronomy .....	\$200 00
R. D. Bohannon, Professor....	Mathematics .....	225 00
Geo. W. McCoard, Asso. Prof.	" .....	160 00
C. L. Arnold, Asst. Prof.....	" .....	100 00
K. D. Swartzel, Asst. Prof.....	" .....	100 00
S. E. Rasor, Asst. Prof.....	" .....	70 00
J. F. Travis, Asst. Prof.....	" .....	30 00
W. E. Davis, Asst. Prof.....	" .....	15 00
II. For facilities, as follows:		
Text-books and reference books .....		\$64 34
Apparatus, machinery, stock, and materials, as follows:		
Astronomy.		
Photo supplies, \$5.38; hardware and tools, \$20.60 .....		\$25 98
Castings, \$4.15; instruments, \$58.01; lathe, \$25.53 .....		87 69
Sextant, \$100.00; electric supplies, \$7.95....		107 95
Total .....		\$1,185 96

## SCHEDULE E.

Disbursements for instruction in Natural or Physical Science and for facilities for such instruction during the year ended June 30, 1901.

Names of instructors	Subjects taught for which paid from "Morrill Fund."	Amount.
I. For salaries of instructors:		
A. M. Bleile, Professor.....	Anatomy and physiology.....	\$225 00
C. B. Morrey, Asst. Professor..	" " .....	110 00
Melvin Dresbach, Assistant....	" " .....	50 00
W. A. Kellerman, Professor....	Botany .....	225 00
J. H. Schaffner, Asst. Prof.....	" .....	110 00
Walter Fischer, Assistant.....	" .....	25 00
Harriett Burr, Assistant.....	" .....	25 00
F. J. Luke, Assistant.....	" .....	50 00
F. J. Tyler, Assistant.....	" .....	25 00
W. McPherson, Professor.....	Chemistry .....	225 00
S. A. Norton, E. Professor.....	" .....	125 00
W. E. Henderson, Asst. Prof..	" .....	100 00
H. C. Gore, Assistant.....	" .....	60 00
C. P. Linville, Assistant.....	" .....	30 00
W. L. Dubois, Assistant.....	" .....	30 00
C. H. Kimberly, Assistant.....	" .....	30 00
C. S. Prosser, Asso. Professor...	Geology .....	160 00
Jno. A. Bownocker, Asso. Prof.	" .....	140 00
N. W. Lord, Professor.....	Metallurgy .....	200 00
E. E. Somermeier, Assistant...	" .....	75 00
G. B. Kauffman, Professor ...	Pharmacy .....	200 00
W. A. Landacre, Asst. Prof....	" .....	80 00
B. F. Thomas, Professor.....	Physics .....	225 00
J. E. Boyd, Asst. Professor.....	" .....	120 00
F. E. Kester, Assistant.....	" .....	80 00
H. B. Brooks, Assistant.....	" .....	30 00
Herbert Osborn, Professor.....	Zoology and entomology.....	225 00
J. S. Hine, Asst. Prof.....	" " .....	95 00
F. L. Landacre, Asst. Prof.....	" " .....	95 00
E. D. Ball, Assistant.....	" " .....	30 00
II. For facilities, as follows:		
Text-books and reference books.....		\$831 25
Apparatus, machinery, stock, and materials, as follows:		
. Anatomy and Physiology.		
Microscopes, \$142.57; lab. supplies, \$33.27.....		\$175 84
Botany.		
Tools and hardware, \$42.45; optical instruments, \$79.24.....		\$121 69
Laboratory supplies, \$6.04; herbarium, \$17.27; microscopes, \$90 00..		113 79
Chemistry.		
Crucibles, \$276.50; chem. supplies, \$1,830.31; stands, 76.20.....		\$2,183 01
Instruments, \$3.40; balances, \$121.49; apparatus, \$414.03 .....		538 92
Electrical supplies, \$29.70 .....		29 70

## SCHEDULE E—Concluded.

	Amount.
Geology.	
Trays, \$25.00; minerals, \$42.90; instruments, \$41.00; fossils, \$54.70..	\$163 60
Physics.	
Circuit register, \$35.00; lab. supplies, \$25.45; carbons, \$5.90 .....	\$66 35
Instruments, \$1,036.46; kromskop, \$50.75.....	1,087 21
Zoology and Entomology.	
Microscopes, \$133.36; lab. supplies, \$47.43; aquarium, \$44.55 .....	\$225 34
Tools and hardware, \$6.46; collections, \$4.50; skeletons, \$132.00; apparatus, \$43.68 .....	\$186 64
Metallurgy.	
Chemical supplies, \$320.65; furnace, \$15.08.....	\$335 73
Pyrobusite, \$7.50; crucibles, \$32.78.....	40 28
Pharmacy.	
Chemical supplies .....	\$216 00
Total .....	\$9,515 35

## SCHEDULE F.

Disbursements for instruction in Economic Science and for facilities for such instruction during the year ended June 30, 1901.

Names of Instructors.	Subjects taught for which paid from "Morrill Fund."	Amount.
I. For salaries of instructors:		
Perla G. Bowman, Asso. Prof. D. S.	Domestic science .....	\$140 00
Cornelia T. Souther, " D. Art	" art .....	90 00
F. C. Clark, Prof. Econ. Sociology.	Economic science .....	180 00
S. F. Seuyser, Asst. in Economics.	" " .....	30 00
II. For facilities, as follows:		
Text-books and reference books .....		\$39 86
Apparatus, machinery, stock, and materials, as follows:		
Domestic Science.		
Trays, \$5.50; groceries, \$87.17; jars, \$4.50.....		\$97 17
Laboratory supplies, \$20.50 .....		20 50
Total .....		\$597 53









# OHIO STATE UNIVERSITY

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THIRTY-FIRST ANNUAL REPORT

OF THE

BOARD OF TRUSTEES

TO THE

GOVERNOR OF OHIO

FOR THE

Year Ending June 30, 1901.

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PART II.

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The State has no material resources at all comparable with its citizens,  
and no hope of perpetuity except in the intelligence  
and integrity of its people.

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COLUMBUS  
PUBLISHED BY THE UNIVERSITY  
JUNE, 1901.

Entered at the Postoffice at Columbus, Ohio, as Second-Class Matter.





## 1901

1902

JANUARY							FEBRUARY							MARCH						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
				2	3	4							1							1
	6	7	8	9	10	11		3	4	5	6	7	8		3	4	5	6	7	8
13	14	15	16	17	18		10	11	12	13	14	15		10	11	12	13	14	15	
20	21	22	23	24	25		17	18	19	20	21			17	18	19	20	21	22	
27	28	29	30	31			24	25	26	27	28			24 <sup>31</sup>	25	26	27	28	29	



## DAYS AND DATES

### 1901

Summer Session, Lake Laboratory, Sandusky . . . .	July 1 to August 23.
Entrance Examinations (8 A. M.) . . . . .	Monday, September 16.
First Term begins—Registration Day . . . . .	Tuesday, September 17.
Lectures and Class-work begin . . . . .	Wednesday, September 18.
President's Annual Address . . . . .	Friday, September 20.
Meeting of Trustees . . . . .	Wednesday, September 25.
Thanksgiving Recess . . . . .	{ Thursday, November 28 . Friday, November 29.
Latest date for Filing Thesis Subjects . . . . .	Saturday, December 14.
First Term ends . . . . .	Wednesday, December 18.
Christmas Vacation.	

### 1902

Second Term begins—Registration Day. . . . .	Thursday, January	2.
University Day . . . . .	Saturday, February	22.
Second Term ends . . . . .	Friday, April	4.
Spring Recess.		
Third Term begins—Registration Day . . . . .	Wednesday, April	9.
Meeting of Trustees . . . . .	Wednesday, April	9.
Field Day—Athletic Association . . . . .	Saturday, May	17.
Senior Vacation begins . . . . .	Saturday, May	24.
Competitive Drill—Cadet Battalion . . . . .	Saturday, May	24.
Memorial Day . . . . .	Friday, May	30.
Latest Date for Presenting Theses . . . . .	Friday, June	7.
Final Examinations . . . . .	{ Monday, June	9.
	to	
	Friday, June	13.
Latest Date for Filing bound Copy of Thesis . . . . .	Friday, June	13.
Baccalaureate Sermon . . . . .	Sunday, June	15.
Entrance Examinations (8 A. M.) . . . . .	{ Monday, June	16.
	Tuesday, June	17.
Class Day . . . . .	Monday, June	16.
Meeting of Trustees . . . . .	Tuesday, June	17.
Alumni Day . . . . .	Tuesday, June	17.
COMMENCEMENT . . . . .	Wednesday, June	18.
Summer Vacation.		
Summer Session, Lake Laboratory, Sandusky . . . .	June 30 to August 22.	
Entrance Examinations (8 A. M.) . . . . .	Monday, September	22.
First Term Begins—Registration Day . . . . .	Tuesday, September	23.
Lectures and Class-work begin (all Colleges) . . . . .	Wednesday, September	24.
Meeting of Trustees . . . . .	Wednesday, September	24.
Annual Address by the President (11 A. M.) . . . . .	Friday, September	26.



# BOARD OF TRUSTEES.

1900-1901

		Term Expires.
LUCIUS B. WING .....	Newark .....	May 13, 1902.
THOMAS J. GODFREY .....	Celina .....	" 1903.
J. McLAIN SMITH .....	Dayton .....	" 1904.
PAUL JONES .....	Columbus .....	" 1905.
OSCAR T. CORSON .....	Columbus .....	" 1906.
DAVID M. MASSIE .....	Chillicothe .....	" 1907.
JOHN T. MACK .....	Sandusky .....	" 1908.

## OFFICERS OF THE BOARD

J. McLAIN SMITH . . . . .	President.
OSCAR T. CORSON . . . . .	Vice President.
ALEXIS COPE .....	Secretary.
LOUIS F. KIESEWETTER. ....	Treasurer.

## COMMITTEES OF THE BOARD

EXECUTIVE	FARM	FINANCE
L. B. WING	J. McLAIN SMITH	D. M. MASSIE
T. J. GODFREY	L. B. WING	J. McLAIN SMITH
PAUL JONES	JOHN T. MACK	PAUL JONES

## FACULTY AND COURSES OF STUDY

THOMAS J. GODFREY	OSCAR T. CORSON	JOHN T. MACK
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# THE UNIVERSITY FACULTY



# Members of the University Faculty, and Other Instructors

## 1900-1901

WILLIAM OXLEY THOMPSON.....University Grounds  
President

A. B., Muskingum College, 1878; A. M., *ibid.*, 1881; D. D., *ibid.*, 1891; LL. D., Western University of Pennsylvania, 1897. Licensed by the Presbytery of Zanesville, Dresden, Ohio, April, 1881; Ordained by Presbytery of Fort Dodge, Iowa, July, 1882; Pastor Odebolt, Iowa, 1882-1885; Pastor Longmont, Colorado, 1885-'91; President Longmont College, 1885-89; President Miami University, 1891-'99; present position since 1899.

WILLIAM HENRY SCOTT.....131 Fifteenth avenue  
Professor of Philosophy

A. B., Ohio University, 1862; M. A., Ohio University, 1865; LL. D., Ohio University and Ohio Wesleyan, 1884. Superintendent of Public Schools, Athens, Ohio, 1862-'64; Principal of the Preparatory Department of Ohio University, 1864-65; Pastor of Main Street (now Trinity) M. E. Church, Chillicothe, Ohio, 1865-'67; Pastor of Town Street (now First) M. E. Church, Columbus, Ohio, 1867-'69; Professor of Greek, Ohio University, 1869-'72; President and Professor of Philosophy, Ohio University, 1872-'83; President and Professor of Philosophy, Ohio State University, 1883-'95; present position since 1895.

SIDNEY AUGUSTUS NORTON.....363 East Town Street  
Emeritus Professor of Chemistry

A. B., Union, 1866; A. M., Union, 1869; M. D., Miami Medical College, 1867; Ph. D., Kenyon, 1878; LL. D., Wooster, 1881. LL. D., Union, 1889. Student at Bonn, Leipsic, Heidelberg; Teacher, Poughkeepsie Collegiate Academy, 1866; Tutor, Union, 1867; Principal Hamilton (Ohio) High School, 1868; Instructor of Natural Science, Cleveland High Schools, 1869-'66; Teacher of Natural Science, Mt. Auburn, 1866-'72; Professor of Chemistry, Miami, 1867-'72; Acting Professor of Physics, Union, 1872-'73; Professor of Chemistry, Ohio State University, 1873-'95; Lecturer in Chemistry, 1895-'99; present position since 1899.

STILMAN W. ROBINSON.....1353 Highland street  
Emeritus Professor of Mechanical Engineering

C. E., University of Michigan, 1863; D. Sc., Ohio State University, 1896; Assistant Engineer U. S. Lake Survey, 1863-'66; Instructor in Engineering, University of Michigan, 1866-'67; Assistant Professor Mining Engineering and Geology, University of Michigan, 1867-'70; Professor Mechanical Engineering and Physics, University of Illinois, 1870-'78; Professor Mechanical Engineering and Physics, Ohio State University, 1878-'81; Professor Mechanical Engineering, Ohio State University, 1881-'95. Resigned in 1895. Consulting Mechanical Engineer and Inventor for Wire Grip and McKay Shoe Machinery Companies, 1884-'98; Re-elected Emeritus Professor of Mechanical Engineering, Ohio State University, 1899. State Inspector of Railroads and Bridges, 1880-'84. Consulting Engineer Santa Fe R. R., 1887-'90. Consulting Engineer Lick Telescope and Mountings, 1887.

NATHANIEL WRIGHT LORD.....338 West Eighth avenue  
Professor of Mineralogy and Metallurgy, Director of the School of Mines, and Dean of the College of Engineering

E. M., Columbia, 1876; Assistant Engineer, Cincinnati, 1877; Engineer and Metallurgist Monte Grande Gold Mining Co., Nicaragua, 1878; Assistant School of Mines, O. S. U., 1879; Chemist Ohio Geological Survey, 1880-'88; Assistant Professor of Mining and Metallurgy, O. S. U., 1880-'87; Professor Mining and Metallurgy, O. S. U., 1887-'91; Professor Metallurgy and Mineralogy, O. S. U., 1896; Chemist State Board of Agriculture, 1881-'99; Chemist State Board of Health, 1896-'98; present position since 1896.



SAMUEL CARROLL DERBY.....93 Fifteenth avenue

Professor of Latin

A. B., Harvard, 1866; A. M., Harvard, 1869 (in course), 1877 (by examination). Principal of Schools, Ilion, N. Y., 1866-'67; Assistant in Dixwell's Classical School, Boston, 1867-'70; Professor of Language, Antioch, 1870-'81; President, Antioch, 1877-'81; Student, Latin and History, Harvard, 1876-'77; Student, Latin and History, Johns Hopkins, 1880-'81; Student, Latin, Harvard, 1892-'93; present position since 1881.

WILLIAM RANE LAZENBY.....348 West Eighth avenue

Professor of Horticulture and Forestry

B. Agr., Cornell, 1874; M. Agr., Iowa Agricultural College, 1887. Instructor Horticulture and Botany, Cornell, 1874-'77; Assistant Professor of Horticulture, Cornell, 1877-'81; Lecturer, N. Y. State Grange, 1874-'81; Director Ohio U. S. Experiment Station, 1882-'87; Professor of Botany and Horticulture, Ohio State University, 1881-'92; present position since 1892.

JOSIAH RENICK SMITH.....950 Madison avenue

Professor of the Greek Language and Literature

A. B., Amherst, 1871; A. M., Amherst, 1883; Principal, Mound Street School, Columbus, 1871-'73; Teacher, Columbus High School, 1873-'76; Assistant Professor of Ancient Languages, Ohio State University, 1876-'81; Student at Leipsic, 1881-'83; present position since 1883.

HENRY ADAM WEBER.....1342 Forsythe avenue

Professor of Agricultural Chemistry

Graduate of Polytechnic School, Kaiserslautern, 1866; Student, Chemistry under Von Liebig and Reischauer, and of Mineralogy under Von Kobell, Munich, 1866-'68; Ph. D., Ohio State University, 1879; Ohio Geological Survey, Chemical Department, 1869-'74; Professor of General Chemistry and Mineralogy, Illinois State University, 1874-'82; Chemist to State Board of Agriculture, Illinois, 1874-'82; Chemist to State Board of Health, Illinois, 1874-'82; State Chemist and Chief Chemist to Ohio State Dairy and Food Commissioner, 1885-'97; present position since 1884.

BENJAMIN FRANKLIN THOMAS.....University Grounds

Professor of Physics, and State Sealer of Weights and Measures.

B. Sc., Ripon, 1874; M. Sc. Ripon, 1877; Ph. D., Stevens Institute, 1880. Instructor in Mathematics and Physics, Carleton College, Northfield, Minnesota, 1876-'79; Professor of Physics, University of Missouri, 1880-'85; Member of the Board of Examiners at the International Electrical Exhibition at Philadelphia, 1884; Member of the Jury of Awards, Department of Electricity, at the World's Columbian Exposition, Chicago, 1893; present position since 1885.

GEORGE WELLS KNIGHT.....University Grounds

Professor of American History and Political Science and of Constitutional Law

A. B., University of Michigan, 1878; A. M., University of Michigan, 1883; Ph. D., University of Michigan, 1884; Student, Law, University of Michigan, 1878-'79; Principal of High School, Lansing, Michigan, 1879-'81; Student, History and Political Science, University of Michigan, 1882-'84; Instructor in History, Ann Arbor High School, 1883-'85; Professor of History and English Literature, Ohio State University, 1885-'87; Professor of History and Political Science, Ohio State University, 1887-'98; Student at Universities of Halle, Berlin, and Friburg, 1889-'90; present position since 1898.

ROSSER DANIEL BOHANNAN.....Sixteenth and Indianola avenues

Professor of Mathematics

B. Sc. C. E., E. M., University of Virginia, 1876; Student of Mathematics and Physics, Cambridge, England, 1880-'82; Göttingen, 1882-'83; Teacher of Mathematics and Latin, Suffolk Collegiate Institute, Virginia, 1876-'77; Teacher of Mathematics and English, New York Latin School, New York City, 1877-'78; Professor of Mathematics and Natural Science, Emory and Henry College, 1878-'80; Acting Professor of Mathematics, University of Virginia, 1883-'84; Assistant in Mathematics and Physics, University of Virginia, 1884-'87; Professor of Mathematics and Astronomy, Ohio State University, 1887-'95; present position since 1895.

C. NEWTON BROWN.....1343 Forsythe avenue  
Professor of Civil Engineering

C. E., Miami, 1886; Resident Engineer of the Ironton Extension of the Pittsburg, Cincinnati, Chicago & St. Louis R. R., 1881; Ohio Geological Survey, 1882; Assistant in Mathematics and Civil Engineering, Ohio State University, 1883-'85; Associate Professor of Civil Engineering, Ohio State University, 1885-'90; present position since 1890.

ERNST AUGUST EGGERS.....190 West Eleventh avenue, University Grounds  
Professor of Germanic Languages and Literatures

Student in Gymnasium at Hanover, at Michigan State Normal School, the Sorbonne, College de France; Instructor in German in the High Schools of Michigan for ten years; Assistant in German, Ohio State University, 1886-'88; Assistant Professor of German, same institution, 1888-'90; present position since 1890.

ALBERT MARTIN BLEILE.....218 King avenue  
Professor of Anatomy and Physiology

M. D., Starling Medical College, 1876; Student, Vienna, Chemistry and Physiology, 1876-'77; Student, Physiology, Leipsic, 1877-'78; Student Anatomy and Histology, Paris, 1878-'79; Lecturer on Experimental Physiology, Starling Medical College, 1879; Professor of Physiology, Starling Medical College, 1884; present position since 1891.

WILLIAM ASHBROOK KELLERMAN.....175 Eleventh avenue  
Professor of Botany

B. Sc., Cornell, 1874; Ph. D., Zurich, 1881; Professor of Natural Science, Wisconsin State Normal School, 1874-'79; Professor of Botany and Horticulture, Kentucky State College, 1881-'82; Professor of Botany and Zoology, Kansas State Agricultural College, 1883-'87; Professor of Botany, Kansas State Agricultural College, 1888-'91; Botanist, Kansas State Board of Agriculture, 1883-'91; Ohio Geological Survey (Botany) 1892-'93; Founder and Editor of the Journal of Mycology, 1885-'89; present position since 1891.

THOMAS FORSYTH HUNT.....188 West Tenth avenue  
Professor of Agriculture, and Dean of the College of Agriculture and Domestic Science

B. Sc., University of Illinois, 1884; M. Sc., University of Illinois, 1892; Assistant to Illinois State Entomologist, 1885-'86; Assistant in Agriculture, University of Illinois, 1886-'88; Assistant Agriculturalist, Illinois Experiment Station, 1888-'91; Professor of Agriculture, Pennsylvania State College, 1891-'92; present position since 1892.

GEORGE BEECHER KAUFFMAN.....University Grounds  
Professor of Pharmacy, and Dean of the College of Pharmacy

B. Sc., Ohio Wesleyan University, 1877; Pharm. D., Scio, 1894; Associate Professor of Pharmacy, Ohio State University, to 1894; present position since 1894.

BENJAMIN LESTER BOWEN.....775 East Broad street  
Professor of Romance Languages and Literatures

A. B., University of Rochester, 1881; Ph. D., Johns Hopkins University, 1888. Post graduate work, University of Rochester, 1881-'82; Professor of Languages, New Windsor College, Maryland, 1882-'83; Graduate Student and Assistant in French, Johns Hopkins University, 1883-'86, and 1887-'88 Student at the Universities of Paris, Bonn, Rome and Madrid, 1885, and 1886-'87; Professor of French and Latin, Bowdoin College, 1888-'89; Acting Associate Professor of French Language and Literature, Ohio State University, 1889-'90; Associate Professor of Romance Languages and Literatures, Ohio State University, 1890-'94; present position since 1894.

JOSEPH VILLIERS DENNEY.....230 West Tenth avenue  
Professor of Rhetoric and the English Language, and Secretary of the University Faculty

A. B., University of Michigan, 1885. Journalist, 1885-'98; Principal of the Aurora (Illinois) High School, 1888-'90; Instructor in English and Graduate Student, University of Michigan, 1890-'91; Associate Professor of Rhetoric, Ohio State University, 1891-'94; present position since 1894.

ALLEN CAMPBELL BARROWS.....85 West Tenth avenue

Professor of English Literature, and Dean of the College of Arts, Philosophy and Science

A. B., Western Reserve, 1861; A. M., Western Reserve, 1866; D. D., Iowa College, 1889. Teacher, Latin and Greek, Phillips Academy, 1865-'66; Professor of Physics, Western Reserve, 1866-'70; Professor of Latin and English Literature, Western Reserve, 1870-'71; Professor of English Literature and History, Iowa Agricultural College, 1887-'94; present position since 1894.

EDWARD ORTON, JR.....The Normandie

Professor and Director of the Department of Clay-Working and Ceramics

E. M., Ohio State University, 1884. Assistant on Ohio Geological Survey, 1882; Chemist for Columbus and Hocking Coal and Iron Company, 1885-'86; Superintendent of Blast Furnace at New Straitsville, O., 1887-'88; Superintendent of Victoria Furnace, Goshen Bridge, Va., 1888; Steel Worker, Homestead Steel Works, Homestead, Pa., 1889; Superintendent Ohio Paving Company's Factory, Columbus, Ohio, 1890-'92; Special Assistant on Clays, Ohio Geological Survey, 1892; Superintendent Acme Vitrified Brick Co., Louisville, Kentucky, 1893; State Geologist of Ohio, 1899; present position since May, 1894.

WILLIAM FORREST HUNTER.....1032 Bryden Road; 18 Board of Trade

Professor of Law and Dean of the College of Law

Admitted to the Bar in 1861; Student, University of Michigan Law School; practicing attorney since 1866; Dean of the Law School, Ohio State University, 1892-'96; present position since 1896.

\*DAVID FRANKLIN PUGH.....1320 Highland street; Board of Trade

Professor of Law

Member of the West Virginia Constitutional Convention, 1872; Member of Legislature, West Virginia, 1874-'75; Prosecuting Attorney, Tyler County, West Virginia, 1870-'80; Common Pleas Judge, Franklin County, Ohio, 1887-'99; present position since 1891.

EMILIUS OVIATT RANDALL.....1025 Oak street; Supreme Court Room

Professor of Law

Ph. B., Cornell, 1874; LL. B., LL. M., Ohio State University, 1892. Admitted to practice, 1890; Secretary Ohio State Historical Society; Reporter Supreme Court of Ohio. Present position since 1893.

EDGAR BENTON KINKEAD.....Wyandotte avenue; Board of Trade

Professor of Law

Assistant State Law Librarian, 1887-'94; Special Counsel for Attorney-General of Ohio, 1897-1900. Present position since 1895.

WILLIAM HERBERT PAGE.....1068 Franklin avenue; 27 Board of Trade

Professor of Law

B. A., Yale, 1889; LL. B., Ohio State University, 1892; LL. M., same institution, 1894; Instructor in Central High School, Columbus, Ohio, 1889-'96. Present position since September, 1896.

WILLIAM THOMAS MAGRUDER.....191 King avenue

Professor of Mechanical Engineering

M. E., Stevens Institute of Technology, 1881. Practical Experience in Machine Design and Shop Practice, Taunton, Mass., 1881-'96. Student in Chemistry and Mathematics, etc., Johns Hopkins University, 1886-'87; Professor of Mechanical Engineering (practical and theoretical) Vanderbilt University, 1887-'96; present position since July, 1896.

JOHN PANCOAST GORDY.....The Normandie

Professor of Education

Ph. D., University of Leipsic, 1884; LL. D., Western University of Pennsylvania, 1897. Student in Philosophy at Leipsic, 1883-'84; Student in Philosophy at Johns Hopkins University, 1886; Assistant in Revision of Webster's Dictionary, 1884-'85; Professor of Philosophy and Pedagogy, Ohio University, Athens, 1886-'96; present position since September, 1896.



WILLIAM MCPHERSON.....65 Hamilton avenue

Professor of Chemistry

B. Sc., Ohio State University, 1887; M. Sc., Ohio State University, 1890; D. Sc., Ohio State University, 1895; Ph. D., University of Chicago, 1899; Instructor in Chemistry and Physics, Toledo High School, 1887-'89; Instructor in Chemistry and Latin, Toledo High School and Manual Training School, 1889-'92; Assistant in Chemistry, Ohio State University, 1892-'93; Assistant Professor in Chemistry, Ohio State University, 1893-'95; Associate Professor, General Chemistry, Ohio State University, 1895-'97; present position since 1897.

JOSEPH NELSON BRADFORD.....54 West Tenth avenue

Professor of Drawing

M. E., Ohio State University, 1883. Draftsman, Ohio Geological Survey, 1882; Machinist and Draftsman, Pittsburg, Cincinnati & St. Louis Railroad, 1883-'85; Assistant in Mechanical Engineering and Drawing, Ohio State University, 1885-'90; Assistant Professor of Drawing, Ohio State University, 1890-'93; Associate Professor of Drawing, Ohio State University, 1893-'99; present position since 1899.

DAVID STUART WHITE.....West Fifth avenue

Professor of Veterinary Medicine, and Dean of the College of Veterinary Medicine

D. V. S., Ohio State University, 1890. Student, Royal Veterinary Schools of Hanover, Berlin, 1890-'91; at Imperial Veterinary Institute of Vienna, 1892; Royal Veterinary College of Dresden, 1893; Assistant in Veterinary Medicine, Ohio State University, 1893-'95. Present position since 1895.

HERBERT OSBORN.....485 King avenue

Professor of Zoology and Entomology

B. Sc., Iowa Agricultural College, 1879; M. Sc., same institution, 1880; Student of Entomology at Museum Comparative Zoology (Cambridge, Mass.) 1881-'82; College of Physicians and Surgeons, Des Moines, 1884-'85 (Anatomy and Physiology); Zoological Station Naples (Smithsonian table), 1894-'95. Assistant in Zoology and Entomology, Iowa Agricultural College, 1880-'83; Assistant Professor of Zoology and Entomology, Iowa Agricultural College, 1884-'85. Professor of Zoology and Entomology, Iowa Agricultural College, 1886-'98; Special Agent Division of Entomology, U. S. Department of Agriculture, 1885-'94; Entomologist, Iowa Experiment Station, 1890-'98; State Entomologist, Iowa, 1898. Present position since 1898.

FRANK EDWIN SANBORN.....380 West Eighth avenue

Professor and Director of the Department of Industrial Arts

S. B., in Mechanical Engineering, Massachusetts Institute of Technology, 1889. Assistant in Drawing, Massachusetts Institute of Technology, 1889-'90; Teacher in Manual High School Department, Pratt Institute, 1890-'91; Walker Special Instructor, Tufts College, 1891-'94; Instructor in Mechanical Department, Tufts College, 1894-'98; present position since September, 1898.

HENRY CURWEN LORD.....401 West Sixth avenue

Professor of Astronomy and Director of the Emerson McMillen Observatory

B. Sc., University of Wisconsin, 1889. Assistant in Washburn Observatory, University of Wisconsin; with Thompson-Houston Electric Company, 1889; Assistant in Mathematics and Astronomy, Ohio State University, 1891-'94; elected Fellow, Royal Astronomical Society, 1897; present position since 1895.

FRANK ARNOLD RAY.....137 King avenue

Professor of Mine Engineering

E. M., Ohio State University, 1887. Superintendent building construction, Elah Terral & Co., 1887-'88; Assistant Mining Engineer C. & H. C. & I. Co., 1888-'89; Chief Engineer C. & H. C. & I. Co., 1889-'92; Chief Engineer Congo Mining Co., 1892-'95; Assistant Professor of Mine Engineering, O. S. U., 1895-'97; Associate Professor, 1897-1900; present position since 1900.



- FREDERICK CONVERSE CLARK.....1634 Neil avenue  
Professor of Economics and Sociology
- A. B., University of Michigan, 1887; A. M., University of Michigan, 1888; Ph. D., University of Michigan, 1891. Student at Halle, Leipzig and Berlin, 1893-'95; Instructor in History and Economics, Ann Arbor High School, 1888-'92; Assistant Professor of Political Science, and Acting Head of the Department, Stanford University, 1892-'93; Assistant Professor of Political Economy, 1893; Assistant Professor of Economics and Sociology, Ohio State University, 1895-'98; Associate Professor, 1898-1900; present position since 1900.
- WILLIAM DAVID GIBBS.....234 West Tenth avenue  
Professor of Agronomy.
- B. Sc., University of Illinois, 1893. Fellowship in Agriculture, University of Illinois, 1893-'94; M. S., University of Illinois, 1894; Post-graduate work, University of Wisconsin, 1895; Expert Assistant in Division of Agricultural Soils of the United States Department of Agriculture, summer of 1895; Teacher of Bacteriology, University of Illinois, fall term, 1893; Assistant in Animal Husbandry, University of Illinois, winter term, 1894; Assistant in Agriculture, Ohio State University, spring and fall terms, 1895; Assistant Professor of Agriculture, 1895-'98; Associate Professor of Agriculture, 1898-1900; present position since 1900.
- CHRISTOPHER P. LINHART.....Gymnasium; The Vendome  
Professor of Physical Education and Director of the Gymnasium
- M. D., Western Reserve University, Cleveland, 1882. Post-graduate student, same institution 1882-'83; Student and Instructor, Dr. Anderson's Normal School of Physical Education, 1886; student in Harvard Summer School, 1887; House Physician and Surgeon, Cleveland City Hospital, 1883-'85; Assistant Demonstrator of Anatomy, Western Reserve University, 1885-'86, and Assistant Visiting Physician Charity Hospital, Cleveland, 1886; Director of Y. M. C. A. Gymnasium, Orange, N. J., 1886 and 1888; Instructor in Physiology and Physical Education, Newark (N. J.), Academy, 1887 and 1890, and Director of Physical Education, Newark, N. J., Public Schools, 1888-'90; Medical Director Manhattan Athletic Club, 1891 and 1892; Instructor in Physiology and Physical Education, Union College, 1892-'97; Director of the Gymnasium and Instructor in Physical Education, O. S. U., 1897-1900; present position since 1900.
- CAPTAIN GEORGE L. CONVERSE, U. S. A. (Retired).....398 Oak street  
Professor of Military Science and Tactics
- OLIVE B. JONES.....53 Eleventh avenue  
Librarian
- Assistant Librarian, 1887. Present position since 1893.
- JOHN ALLEN SHAUCK.....95 Winner avenue; Supreme Court Room  
Professor of Law
- B. A., Otterbein University; LL. B., University of Michigan, 1867; A. M., Otterbein University, 1870; LL. D., Otterbein University, 1897. Judge of the Supreme Court of Ohio.
- JAMES HENRY COLLINS.....57 Lexington avenue; Ruggery Building  
Professor of Law
- In practice for thirty years. Present position since 1891.
- PAUL FISCHER.....Franklin avenue  
Professor of Pathological Anatomy
- B. Sc., O. S. U., 1891; D. V. M., 1893.
- FRANCIS CARY CALDWELL.....401 West Sixth avenue  
Associate Professor of Electrical Engineering
- A. B., Cornell, 1890; M. E., Cornell, 1891; with Thomson-Houston Electric Co., Lynn, Mass., 1891-'92; Student at the National Polytechnic School, Zurich, 1892-'93; Assistant Professor of Electrical Engineering, Ohio State University, 1893-'97; present position since 1897.

PERLA G. BOWMAN.....The Dennison  
Associate Professor of Domestic Science; in charge of the Department of Domestic Economy

Graduate of Toledo High School; Graduate of Toledo Manual Training School; Student at Wells College; Instructor in Toledo Manual Training School; Director of Domestic Science, Toledo Manual Training School; Special Student at Pratt Institute (Brooklyn), and the University of Michigan. Present position since September, 1897.

WILBUR HENRY SIEBERT.....1332 Highland street  
Associate Professor of European History

A. B., Ohio State University, 1888; A. B. (with honorable mention) Harvard University, 1889; M. A., Harvard, 1890; Student, Freiburg and Berlin, 1890-'91; Student, Harvard, 1895; Assistant in History and Political Science, Ohio State University, 1891-'93; Assistant Professor of History, Ohio State University, 1893-'95, 1897-'98; Student, Harvard University, 1895-'97; present position since 1898.

EMBURY ASBURY HITCHCOCK.....380 West Eighth avenue  
Associate Professor of Experimental Engineering

M. E., Cornell, 1890; Straightline Engine Company, Syracuse, N. Y., 1889; Corliss Steam Engine Company, Providence, R. I., 1890-'93; Assistant in Mechanical Engineering, Ohio State University, 1893-'95; Assistant Professor of Mechanical Engineering in charge of the Department, 1895-'96; Assistant Professor, Experimental Engineering, Ohio State University, 1896-'97; present position since 1897.

GEORGE WASHINGTON MCCOARD.....325 West Sixth avenue  
Associate Professor of Mathematics

B. A., Bethany, West Virginia, 1873; M. A., Bethany, 1882; Principal of Oakdale Classical Normal Institute, Allegheny County, Pennsylvania, 1873-'74; Private Tutor in Cleveland, Ohio, 1874-'80; Principal of Public Schools, Irving Park, Chicago, 1880-'81; Teacher of Latin and Mathematics, Columbus High School, 1881-'82; Assistant in Mathematics and Latin, Ohio State University, 1882-'87. Assistant Professor of Mathematics, Ohio State University, 1887-'99; present position since 1899.

CHARLES WALTER MESLOH.....University Grounds  
Associate Professor of Germanic Languages and Literatures

A. B., Ohio State University, 1889; M. A., Ohio State University, 1895; student in the University of Chicago, 1894; Student, University of Berlin, 1896-'97; Assistant in German, Ohio State University, 1889-'95; present position since 1895.

ARTHUR WINFRED HODGMAN.....164 West Ninth avenue  
Associate Professor of the Classic Languages

A. B., Harvard, 1890; A. M., Harvard, 1893; Ph. D. (Classical Philology) Harvard, 1896; Student in Graduate School, Harvard, Classical Philology, 1892-'96; Instructor in Preparatory Schools, Quincy, Duxbury, Mass., 1890-'92; Assistant in Greek and Latin, Ohio State University, 1896-'97; Assistant Professor of the Classic Languages, Ohio State University, 1897-'99; present position since September, 1899.

CHARLES SMITH PROSSER.....114 West Tenth avenue  
Associate Professor of Historical Geology

B. S., Cornell University, 1883; M. S., Cornell University, 1886; Fellow in Natural History, Cornell, 1884-'85; Instructor in Paleontology, Cornell University, 1885-'88; Assistant Paleontologist, U. S. Geological Survey, 1888-'92; Professor of Natural History, Washburn College, Topeka, Kansas, 1892-'94; Assistant Geologist, U. S. Geological Survey, 1893-'94; Professor of Geology, Union College, Schenectady, N. Y., 1894-'99; Assistant Geologist, N. Y. Geological Survey, 1895-'99; Assistant Geologist, University Geological Survey of Kansas, 1896; Chief of Appalachian Division, Maryland Geological Survey since 1898; Assistant Geologist, Ohio Geological Survey and U. S. Geological Survey, 1900—. Present position since 1899.

JOHN ADAMS BOWNOCKER.....1594 Neil avenue  
Associate Professor of Inorganic Geology and Curator of the Museum

B. Sc., Ohio State University, 1889; D. Sc., Ohio State University, 1897; Principal of High School, Martins Ferry, 1889-'92; Fellow in Geology, University of Chicago, 1892-'94; Graduate Scholar, Yale University, 1894-'95; Assistant Geological Survey of Ohio, 1892; Assistant Geological Survey of New Jersey, 1893; Assistant Geologist Ohio Survey, 1900—; Assistant in Geology, 1895-'98; Assistant Professor, 1898-'99; present position since 1899.

JOHN WRIGHT DECKER.....319 West Eighth avenue

Associate Professor of Dairying

B. Agr., University of Wisconsin, 1890. Fellow in Agriculture, University of Wisconsin, 1890-'91. Instructor in Dairying, University of Wisconsin, 1891-99. Present position since 1899.

CORNELIA PORTER SOUTHER.....The Dennison

Associate Professor of Domestic Art

Graduate of Mary Institute (Washington University), St. Louis, Mo., 1883; Certificated Student at Mary Institute, 1883-'85; Handarbeitslehrerinnen-Seminar des Carola-Vereins, Leipzig, 1896-'97; Investigations in Domestic Art Methods in foreign cities, 1896-'98; Teacher of Sewing, Mrs. Ball's Private School, St. Louis, 1898; Special Student at Pratt Institute, Brooklyn, and Teachers' College, Columbia University, New York, 1899; Assistant Professor of Domestic Art, 1899-1900; present position since 1900.

CLARA MAUD BERRYMAN.....

Associate Professor of Physical Education

JAMES ELLSWORTH BOYD.....60 West Maynard avenue

Assistant Professor of Physics

B. Sc., Ohio State University, 1891; M. Sc., Cornell, 1896. Student in Physics and Mathematics, Ohio State University, 1893-'95; Student in Experimental and Theoretical Physics, Cornell, 1895-'96; also Student in Sibley College of Mechanic Arts, Cornell, summer of 1895; Assistant in Physics, Ohio State University, 1891-'95; held scholarship in Physics, Cornell, 1895; present position since September, 1896.

JOSEPH RUSSELL TAYLOR.....222 King avenue

Assistant Professor of English Literature

B. A., Ohio State University, 1887; M. A., Columbia University, 1897; Assistant in Drawing, Ohio State University, 1889-'94; Assistant in Rhetoric, Ohio State University, 1894-'97; University Fellow in Literature, Columbia University, 1896-'97; Assistant Professor of Rhetoric, Ohio State University, 1897-'99; present position since 1899.

CHRISTOPHER ELIAS SHERMAN.....772 Oak street

Assistant Professor of Civil Engineering

C. E., Ohio State University, 1894. Engaged in Civil Engineering in Ohio, Tennessee, Virginia, North Carolina and Arizona for three years during college course. Engaged in railroad, geological and governmental engineering from graduation until September, 1896. Engineer to Park Commission, Springfield, Ohio, and U. S. Assistant Engineer at Tampa, Florida, and Huntsville, Alabama, summer of 1898; U. S. Assistant Engineer on Roads and Bridges, Yellowstone National Park, summer of 1899 and 1900; Assistant in Civil Engineering, Ohio State University, 1896-'97; present position since 1897.

WILLIAM LUCIUS GRAVES.....1313 Forsythe avenue

Assistant Professor of Rhetoric

B. A., Ohio State University, 1893; M. A., Ohio State University, 1897. Instructor in High School, Coshocton, 1894-'95; Fellow and Assistant in Rhetoric and English Language, Ohio State University, 1895-'96; present position since 1896.

\*CLAIR ALBERT DYE.....169 King avenue

Assistant Professor of Pharmacy

G. Ph., Ohio State University, 1891. Post-graduate student in Chemistry and Pharmacy, Ohio State University; Assistant in Chemistry and Pharmacy, 1890-'94; Assistant in Pharmacy, 1894-'98; present position since 1898.

THOMAS EWING FRENCH.....1458 Worthington street

Assistant Professor of Drawing

M. E., Ohio State University, 1895; Assistant in Drawing Department three years preceding graduation; Draftsman, The Smith-Vaile Company, Dayton, 1888-'90; Instructor in Mechanical Drawing, Y. M. C. A., Dayton, 1888-'91; Chief Draftsman, The Smith-Vaile Company, Dayton, 1891; Assistant in Drawing, 1892-'98; present position since 1898.



\*CHARLES WILLIAM FOULK.....Leipzig, Germany  
Assistant Professor of Analytical Chemistry

B. A., Ohio State University, 1894; Assistant in General Chemistry, 1896-'98; present position since September, 1898.

CHARLES LINCOLN ARNOLD.....328 West Eighth avenue  
Assistant Professor of Mathematics

B. Sc., Ohio State University, 1890; M. Sc., Ohio State University, 1894. Post-graduate Student, University of Chicago and Ohio State University, 1894-'95. Assistant in Mathematics Ohio State University, 1890-'99. Present position since 1899.

KARL DALE SWARTZEL.....57 East Eighth avenue  
Assistant Professor of Mathematics

B. Sc., Ohio State University, 1893; M. Sc., Ohio State University, 1894. Fellow and Assistant in Mathematics, Ohio State University, 1894-'95. Assistant in Mathematics, Ohio State University, 1895-'99. Present position since 1899.

CHARLES A. BRUCE.....234 West Tenth avenue  
Assistant Professor of the Romance Languages

A. B., Ohio State University, 1895; Student of French, Amherst, Summer School, 1895; Graduate Student, University of Chicago, Summer Quarter, 1896; Student, University of Geneva, Summer School, 1898; Student at the Sorbonne, College de France, and Ecole des Hautes-Etudes, Paris, 1898-'99; Graduate Student, University of Chicago, Summer Quarter, 1900; Assistant in French, Ohio State University, 1895-'99; present position since 1899.

JOHN H. SCHAFFNER.....40 West Tenth avenue  
Assistant Professor of Botany

A. B., Baker University, Kansas, 1893. A. M., University of Michigan, 1894; M. S., Baker University, 1896. Student in Botany, Zoology and Geology, University of Michigan, 1893-'95. Student in Botany and Paleo-Botany, University of Chicago, 1896-'97. Assistant in Botany, University of Michigan, 1894-'95. Professor of Natural Sciences, South Dakota University, 1895-'96; Assistant in Botany, Ohio State University, 1897-'99. Present position since 1899.

CHARLES BYRON FREDERICK.....Veterinary Hospital  
Assistant in Veterinary Medicine.

V. M. and S., Ontario Veterinary College, 1893. In practice since graduation. Fellow in Veterinary Medicine, 1897-'98; Assistant in Veterinary Medicine, 1898. Present position since 1898.

CHARLES BRADFIELD MORREY.....86 King avenue  
Assistant Professor of Anatomy and Physiology

B. A., Ohio State University, 1890; Post-graduate Student, Ohio State University, 1890-'91; M. D., Starling Medical College, 1896. Assistant in Latin, Ohio State University, 1890-'91; Assistant in Latin and Physiology, 1891-'92; Assistant in Physiology, Ohio State University, 1892-'95; Student in Vienna and Paris, 1897-'99. Present position since 1899.

WILLIAM EDWARDS HENDERSON.....41 West Eleventh avenue  
Assistant Professor of Analytical Chemistry

A. B., University of Wooster, 1891; M. A., 1894; Ph. D., Johns Hopkins University, 1897. Graduate Student Johns Hopkins University, 1893-'97. Fellow in Chemistry, Johns Hopkins University, 1896-'97. Professor of Natural Sciences, College of Emporia, Kansas, 1891-'93. Professor of Chemistry, Ohio University, 1897-'99. Present position since 1899.

GEORGE H. MCKNIGHT.....312 West Seventh avenue  
Assistant Professor of Rhetoric and English Language

A. B., Cornell, 1892, Ph. D., Cornell, 1896. Instructor in English at Cornell, 1892-'97; Cornell Traveling Fellow in English Philology, 1897-'98; Student in Freiburg, 1897-'98. Student in Paris and London, 1898-'99. Present position since 1899.

\*In Europe on leave of absence.



- WALTER ALEXANDER LANDACRE.....1574 Summit street  
Assistant Professor of Pharmacy  
G. Ph. Ohio State University, 1891. Chemist Braun Sons & Co., 1891-'97. Post-graduate Student Ohio State University, 1897-'99. Present position since 1899.
- HERRICK CLEVELAND ALLEN.....275 East Gay street  
Assistant Professor of Public Speaking  
Student Union College 1894-'95-'96. LL. B. Cornell University, 1898. Instructor Department of Oratory and Debate, Cornell University, 1898-'99. Present position since 1899.
- JAMES STEWART HINE.....26 West Fourth avenue  
Assistant Professor of Zoology and Entomology  
B. Sc. (H. and F.), Ohio State University, 1893. Superintendent of the N. W. Substation of the Ohio Agricultural Experiment Station, 1893. Assistant in Horticulture, Ohio State University, 1894. Student in Entomology, Cornell, 1895. Assistant in the Division of Entomology of the United State Department of Agriculture, summers of 1897 and 1899; Assistant in Entomology, 1895-'99; present position since 1899.
- FRANCIS LEROY LANDACRE.....1332 Highland street  
Assistant Professor in Zoology and Entomology  
B. A., Ohio State University, 1895. Student in Chicago University, summer quarters of 1898 and of 1899; Professor of Embryology in Ohio Medical University since 1896; Assistant in Zoology and Entomology, Ohio State University, 1895-1900; present position since 1900.
- WALLACE S. ELDEN.....1462 Neil avenue  
Assistant Professor of Classic Languages  
A. B., Bowdoin, 1889; A. M., Bowdoin, 1892; Ph. D., University of Michigan, 1900; Student in Johns Hopkins University, 1889-'90; Headmaster, Rectory School, Hamden, Conn., 1890-91; Student in Johns Hopkins University, 1891-'92; Instructor in Latin and French, Ohio State University, 1892-'94; Instructor in the Romance Languages, University of Michigan, 1894-'96. Instructor in Latin and Greek, University of Maine, 1896-'97; Assistant Professor of the Classic Languages, University of Maine, 1897-'99; Student in the University of Michigan, 1899-1900; Assistant Professor of the Classic Languages, Ohio State University, 1900; present position since September, 1900.
- FREDERICK EDWARD KESTER.....1473 Neil avenue  
Instructor in Physics  
M. E. (in E. E.), Ohio State University, 1895. M. A., Cornell, 1899. Fellow and Assistant in Physics, Ohio State University, 1895-'97. Assistant in Physics, Ohio State University, 1897-'98, held scholarship in Physics, Cornell, 1898. Present position since 1899.
- BURT BIDWELL HERRICK.....167 Tenth avenue  
Instructor in Cheese Making
- WILLIAM HENRY RENCK.....910 West Rich street  
Instructor in Pattern Making and Founding  
Assistant in Industrial Arts and Foreman of the Carpenter and Pattern Shops, O. S. U., 1889; present position since 1900.
- CHARLES PHILIP CROWE.....971 Highland street  
Instructor in Forging  
Student, Ohio Business College, Delaware, Ohio; Lebanon Normal School, Lebanon, Ohio; Teacher in Public Schools of Delaware and Union Counties, two years; Forge shop experience, seven years; Manufacturer of Steel Forgings and Springs, six years; Assistant in Industrial Arts and Forge Master, O. S. U., 1899; present position since 1900.
- WILLIAM ABNER KNIGHT.....206 West Lane avenue  
Instructor in Machine Work  
M. E., Ohio State University, 1900; thirteen years' practical experience in workshops; Assistant in Industrial Arts, 1893-1900; present position since 1900.

- ALONZO HUBERT TUTTLE.....215 West Tenth avenue  
**Instructor in American History.**  
 A. B., University of Michigan, 1896; Assistant Principal of High School, Ishpeming, Mich., 1896-'98; Principal of High School, Ironwood, Mich., 1898-1900; present position since 1900.
- ARTHUR ERNEST DAVIES.....Seventeenth avenue  
**Instructor in Philosophy**  
 Student in Owen's College, Manchester, England, and University College, London, 1884-88; B. D., Yale Divinity School, 1891; Ph. D., Yale University, 1898.
- J. WARREN SMITH.....1422 Oak street  
**Lecturer on Meteorology**  
 B. S., New Hampshire College of Agriculture and Mechanic Arts, 1888; M. S., N. H. C. of A. & M. A., 1899; special course in Meteorology at Harvard University in 1890 and 1891; employed in United States Weather Bureau since 1888; present position Section Director in charge Columbus Station and the Ohio Section of the Climate and Crop Division of the Bureau.
- HARRIET TOWNSHEND.....53 West Eleventh avenue  
**Assistant in Library**  
 Present position since September, 1895.
- THOMAS KENYON LEWIS.....1293 Dennison avenue  
**Assistant in Drawing**  
 B. Sc., Ohio State University, 1894. Graduate Student, Ohio State University, 1894-'95. Summer of 1897 and summer of 1898 at Cincinnati Art Academy. Present position since Summer of 1897 and summer of 1898 at Cincinnati Art Academy. Present position since 1894.
- MAUD DOROTHY JEFFREY.....65 West Eleventh avenue  
**Assistant in Library**  
 B. Ph., Ohio State University, 1895. Student of Library Science, Ohio State University, 1895-'96. Student of Library Science, Amherst, summer of 1897. Present position since September, 1896.
- GERTRUDE STOWELL KELLICOTT.....1332 Highland street  
**Assistant in Library**  
 Student, Ohio State University, 1888-'95. Student of Library Science, Ohio State University, 1895-'96. Student of Library Science, Amherst, summer of 1897. Present position since September, 1896.
- ALBERT EARL VINSON.....134 West Ninth avenue  
**Assistant in Agricultural Chemistry**  
 Instructor in Chemistry, Y. M. C. A., Dayton, Ohio, 1895. Present position since September, 1896.
- FRANK RUHLEN.....North Dormitory  
**Assistant in Agriculture**  
 B. Sc., Ohio State University, 1896; present position since 1898.
- LUCY ALLEN.....1490 Neil avenue  
**Assistant in Library**  
 B. A., Ohio State University, 1897. M. A., Ohio State University, 1900. Student in Library Science under Dr. G. E. Wire, summer of 1898 at Ohio State University. Student in Harvard University, summer of 1899. Present position since September, 1898.
- EDWARD EVERETT SOMMERMEIR.....1590 Neil avenue  
**Assistant in Metallurgy and Mineralogy**  
 G. Ph., Ohio State University, 1898. Student Laboratory Assistant in Chemistry, 1897-'98. Present position since September, 1898.

- DON CARLOS HUDDLESON.....249 West Lane avenue  
Assistant in Gymnasium  
G. Ph., Ohio State University, 1897. Medical Student, 1897. Summer School of Physical Training Chautauqua, 1898. Present position since 1898.
- CLAUDE B. GUITTARD.....80 McMillen avenue  
Assistant in Library  
Student in Ohio State University, 1892-'96, Assistant in Ohio State Library, 1897-'98. Student in Library Science, Washington, D. C., summer of 1899. Present position since November, 1898.
- \*HOMER CHARLES PRICE.....1594 Neil avenue  
Assistant in Horticulture and Forestry  
B. Sc. (Agr.), Ohio State University, 1897. M. S. A., Cornell University, 1899; Fellowship in Agriculture, Cornell, 1898-'9. Present position since September, 1899.
- FRANCIS MARION HAMILTON.....1355 North High street  
Assistant in Philosophy and Education.  
B. A., Indiana University, 1897. Graduate Student in Philosophy and Education, Indiana University, 1897-'98. Assistant in Philosophy, Indiana University, 1897-'98. Assistant Director of Association College, Central Y. M. C. A., Chicago, 1898-'99. Fellow-elect in Psychology in Clark University for 1899-1900. Present position since 1899.
- DELBERT ALONZO CROWNER.....North Dormitory  
Assistant in Butter Making
- SILAS MARTIN.....1269 Dennison avenue  
Assistant in Drawing  
Studied Art with J. H. Witt, E. F. Andrews and Homier. Private Teacher in Art for twenty years. Present position since 1899.
- MELVIN DRESBACH.....236 West Eighth avenue  
Assistant in Anatomy and Physiology  
B. Sc., Ohio State University; M. Sc., Ohio State University, 1899.
- S. E. RASOR.....  
Assistant in Mathematics  
Fellow in Mathematics, O. S. U., 1898-'99; Professor of Mathematics, Amity College, Iowa, 1899-1900; present position since 1900.
- FRED J. TYLER.....43 East Ninth avenue  
Assistant in Botany
- HERBERT CHARLES GORE.....185 West Ninth avenue  
Assistant in Chemistry  
B. S., University of Michigan, 1899; Fellow in Chemistry, Ohio State University, 1899-1900; present position since 1900.
- S. S. EDMANDS.....  
Assistant in Electrical Engineering  
B. S. in Electrical Engineering, Worcester Polytechnic Institute, 1899; with American Telephone and Telegraph Co., Providence, R. I., 1899-1900.
- WILLIAM DAVIS.....  
Assistant in Civil Engineering

- WILLIAM C. MILLS.....19 West Tenth avenue  
Curator of Archæology  
B. Sc. (H. and F.), Ohio State University, 1898. Curator and Librarian of the Ohio State Archæological and Historical Society. Museum and Library, Orton Hall, O. S. U.
- CHARLES BOYD SAYRE.....716 Neil avenue  
Fellow in American History
- DANFORTH E. BALL.....  
Emerson McMillin Fellow in Astronomy
- HARRIET BURR.....Worthington  
Fellow in Botany
- WALTER FISCHER.....810 Franklin avenue  
Fellow in Botany  
B. Sc., Ohio State University, 1897.
- CHARLES F. KIMBERLEY.....225 Marshall avenue  
Fellow in Chemistry  
B. Sc. (in Pharmacy) Ohio State University, 1900.
- C. P. LINVILLE.....  
Fellow in Chemistry  
B. Sc. (in Chemistry), Ohio State University, 1900.
- W. L. DUBOIS.....61 West Eighth avenue  
Fellow in Chemistry  
B. Sc., Ohio State University, 1900.
- SELDEN F. SMYSER.....1451 Worthington street  
Fellow in Economics
- MARY W. RICE.....844 Summit street  
Emerson McMillin Fellow in Economics
- J. F. TRAVIS.....1018 Neil avenue  
Fellow in Mathematics
- GEORGE W. FROST.....  
Fellow in Mechanical Engineering
- N. O. FORD.....  
Fellow in Metallurgy, Mineralogy and Mine Engineering
- WILLIAM E. BOHN.....North Dormitory  
Fellow in Rhetoric and English Language
- ROYAL ALBERT ABBOTT.....1364 Forsythe avenue  
Fellow in Rhetoric and English Language
- ELMER DARWIN BALL.....1340 Hunter street  
Fellow in Zoology and Entomology  
B. Sc., Iowa State College, 1895; M. Sc., Iowa State College, 1898; Assistant Iowa Experiment Station, 1896-'97; Assistant Professor of Zoology and Entomology, Agricultural College, Colorado, since 1897; Fellow in Zoology and Entomology, Ohio State University, for year 1900-1901.



## CHANGES, 1901-1902

### WITHDRAWN

Professor J. P. Gordy, Associate Professor Perla G. Bowman, Instructor Henry Davies, Assistant William F. Lavery, Assistant Lucy Allen, Assistant Elisha Smith, Assistant Homer Charles Price, Assistant John Wesley Groves, Assistant Francis Marion Hamilton, Assistant Frank Orville Clements, Assistant Edwin E. Nobles, Fellow and Assistant Harold Warner Brown, Emerson McMillin Fellow Herbert W. Kennedy, Fellow B. H. Hibbard, Fellow Charles F. Kimberley, Fellow Mary W. Rice, Fellow Selden F. Smyser, Fellow Nile O. Ford, Fellow George W. Frost, Fellow W. E. Bohn, Fellow R. A. Abbott.

### APPOINTMENTS

*ROGER B. JOHNSON.....	Professor of Philosophy
CHARLES W. FOULK.....	Assistant Professor of Chemistry
F. A. FISH.....	Assistant Professor of Electrical Engineering
H. W. KUHN.....	Assistant Professor of Mathematics
C. A. DYE.....	Assistant Professor of Pharmacy
A. V. BLEININGER.....	Instructor in Ceramics
J. H. VOSSKUEHLER.....	Instructor in Drawing
B. A. EISENLOHR.....	Instructor in Germanic Languages and Literatures
*LUCY ALLEN.....	Reference Librarian
F. A. BOHN.....	Assistant Reference Librarian
VERNON H. DAVIS.....	Assistant in Horticulture and Forestry
JOHN C. BRIDWELL.....	Fellow in Botany
ELMA B. PERRY.....	Fellow in Botany
OTTO E. JENNINGS.....	Florist

\*Resigned.

ALFRED DODGE COLE.....	Professor of Physics
SEPTIMUS SISSON.....	Associate Professor of Veterinary Medicine
JAMES E. HAGERTY.....	Assistant Professor of Economics and Sociology
THEODORE C. SMITH.....	Assistant Professor of American History and Political Science
J. D. BACHELDER.....	Assistant Professor of Romance Languages
ROGER DENISON DeWOLF.....	Fellow in Electrical Engineering
CHARLES B. SAYRE.....	Fellow in Library
MINNIE A. STONER.....	Professor of Domestic Science
THOMAS HARVEY HAINES.....	Assistant Professor of Philosophy
MELVILLE T. COOK.....	Fellow in Zoology and Entomology
CLARENCE P. LINVILLE.....	Fellow in Chemistry
WILBUR LATIMER DUBOIS.....	Fellow in Chemistry
HARRY THOMAS HANCE.....	Fellow in Chemistry
DANFORTH E. BALL.....	Fellow in Astronomy
HELEN RICH POWELL.....	Assistant to Registrar

## CHANGES IN TITLES

### 1901-1902

JOHN W. DECKER,	Associate Professor of Dairying Professor of Dairying
A. E. VINSON,	Assistant in Agricultural Chemistry Instructor in Agricultural Chemistry
W. E. HENDERSON,	Assistant Professor of Analytical Chemistry Associate Professor of Chemistry
C. E. SHERMAN,	Assistant Professor of Civil Engineering Associate Professor of Civil Engineering
SILAS MARTIN,	Assistant in Drawing Instructor in Drawing
T. K. LEWIS,	Assistant in Drawing Instructor in Drawing
F. C. CALDWELL,	Associate Professor of Electrical Engineering Professor of Electrical Engineering
JOSEPH R. TAYLOR,	Assistant Professor of English Literature Associate Professor of English Literature
CHAS. S. PROSSER,	Associate Professor of Historical Geology Professor of Geology
J. A. BOWNOCKER,	Associate Professor of Inorganic Geology Professor of Inorganic Geology
W. A. KNIGHT,	Instructor in Machine Work Assistant Professor of Machine Shop Practice
S. E. RASOR,	Assistant in Mathematics Instructor in Mathematics
E. A. HITCHCOCK,	Associate Professor of Mechanical Engineering Professor of Experimental Engineering
E. E. SOMMERMEIR,	Assistant in Metallurgy and Mineralogy Instructor in Metallurgy and Mineralogy
J. E. BOYD,	Assistant Professor of Physics Associate Professor of Mathematics
C. A. BRUCE,	Assistant Professor of Romance Languages Associate Professor of Romance Languages
J. N. BRADFORD,	Professor of Drawing Professor of Architecture and Drawing
T. E. FRENCH,	Assistant Professor of Drawing Associate Professor of Architecture and Drawing
F. E. KESTER,	Instructor in Physics Assistant Professor of Physics
D. C. HUDDLESON,	Assistant in Physical Education Instructor in Physical Education

## EXECUTIVE DEPARTMENT

1901-1902

WILLIAM OXLEY THOMPSON.....	President
ALEXIS COPE.....	Secretary Board of Trustees and Bursar
W. C. McCracken.....	Chief Engineer
KATHARINE H. DUNCAN.....	Executive Clerk
EDITH D. COCKINS.....	Registrar
CARL E. STEEB.....	Accountant
CHARLES LOWE.....	Assistant Engineer
THOMAS BOUDE.....	First Fireman
W. E. CASE.....	Second Fireman
JAMES KELLEY.....	Lawnkeeper
† BENJAMIN IRWIN.....	Watchman
JOHN RICKETTS.....	Watchman

### JANITORS

* ARTHUR CHANTLER.....	University Hall
HENRY CHANTLER.....	Orton Hall
G. A. GOODSPEED.....	Chemical Hall
JOHN H. BROWN.....	Hayes Hall
GEO. C. DENNY.....	Horticultural Hall and Botanical Building
D. D. GEREN.....	Gymnasium
WILLIAM WHITESTINE.....	Biological Hall
M. N. COOK.....	Townshend Hall
CHARLES HICKS.....	University Hall
H. M. TEMPLIN.....	Veterinary Hospital

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\*Resigned.

†Withdrawn.





# THE UNIVERSITY



# OHIO STATE UNIVERSITY

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## HISTORY

The land grant made by the United States under an act approved by President Lincoln, July 2nd, 1862, provided that there should be granted to each State an amount of public land equal to thirty thousand acres for each Senator and Representative to which the State was entitled by the apportionment of the census of 1860. The proceeds under this act were to constitute a perpetual fund the capital of which was to remain forever undiminished and the interest of the same was to be inviolably applied by each State which should take and claim the benefits of the act to the endowment, support and maintenance of at least one "College where the leading objects shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts, in such a manner as the legislatures of the states may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life."

Governor Tod, in November, 1862, brought the subject before the State Board of Agriculture and later to the attention of the Legislature. In January, 1864, Hon. Columbus Delano introduced a bill accepting the grant. This became a law February 9th, 1864, and pledged the faith of the State to the performance of all the conditions and provisions contained therein. In 1866, an act introduced by Hon. J. T. Brooks, was passed, which provided for the establishment of the Ohio Agricultural and Mechanical College, but the provisions were not carried into effect and a second act introduced by Hon. R. P. Cannon was passed in 1870 entitled "An act to establish and maintain an Agricultural and Mechanical College in Ohio." Under the provisions of this act the institution was located in Columbus and the Board proceeded to the organization of the college and the election of a Faculty of instruction, and the institution was opened for the reception of students on the seventeenth day of September, 1873.

In 1878 the legislature passed "An act to reorganize and change the name of the Ohio Agricultural and Mechanical College and to repeal certain acts therein mentioned." The act provided that the institution should be thereafter designated as "The Ohio State University." Up to this time but one appropriation had been made by the State for the support of the institution. With the reorganization came the larger and broader view of the State's relation to public education and since that time the Ohio State University has shared with other public educational institutions a more generous support by the State.

The governing body of the institution is a Board of Trustees, appointed by the Governor of the State and confirmed by the Senate, for terms of seven years, as provided in the law organizing the University. The original endowment has been supplemented, and the objects of the University promoted, by a permanent annual grant from the United States, under an act of 1890, by special appropriations of the General Assembly; and in 1891, by a permanent annual grant from the State, which grant was doubled by the legislature of 1896. In accordance with the spirit of the law under which it is organized, the University aims to furnish ample facilities for education in the liberal and industrial arts, the sciences and the languages, and for thorough technical and professional study of agriculture,



engineering in its various departments, veterinary medicine, pharmacy and law. Through the aid which has been received from the United States and from the State it is enabled to offer its privileges, with a slight charge for incidental expenses, to all persons of either sex who are qualified for admission.

## ORGANIZATION OF THE UNIVERSITY

The Ohio State University is divided into six colleges, as follows:

The College of Agriculture and Domestic Science consists of those departments represented in the course leading to the degrees of Bachelor of Science in Agriculture, Bachelor of Science in Horticulture and Forestry and Bachelor of Science in Domestic Economy, and in the Course in Dairying, the Short Course in Agriculture, and the Short Course in Domestic Science.

The College of Arts, Philosophy and Science consists of those departments represented in the courses leading to the degree of Bachelor of Arts, Bachelor of Philosophy, and Bachelor of Science.

The College of Engineering consists of those departments represented in the courses leading to the degrees of Civil Engineer, Civil Engineer in Architecture, Engineer of Mines, Engineer of Mines in Ceramics, Mechanical Engineer, Mechanical Engineer in Electrical Engineering, and Bachelor of Science in Industrial Arts and Manual Training, Bachelor of Science in Chemistry or in Metallurgy; in the Short Course in Clay-Working and Ceramics, and in the Short Course in Mining.

The College of Law consists of those departments represented in the course leading to the degree of Bachelor of Laws.

The College of Pharmacy consists of those departments represented in the courses leading to the degree of Bachelor of Science in Pharmacy, and in the Short Course in Pharmacy.

The College of Veterinary Medicine consists of those departments represented in the course leading to the degree of Doctor of Veterinary Medicine, and to a certificate of Veterinary Surgeon.

Each college is under the direction of its own Faculty, which has power to act in all matters pertaining to the work of students in that college.

## LOCATION OF THE UNIVERSITY

The University is situated within the corporate limits of the City of Columbus, two miles north of the Union Depot and about three miles from the State Capitol. The University grounds consist of three hundred and forty-five acres, bounded east and west by High Street and the Olentangy river, respectively. The western portion, about 235 acres, is devoted to agricultural and horticultural purposes, and is under the management of the College of Agriculture and Domestic Science. The eastern portion is occupied by the principal University buildings, campus, athletic and drill grounds, a park-like meadow, and a few acres of primitive forest.

The grounds are laid out with care, ornamented with trees, shrubs and flower beds; and are so managed as to illustrate the instruction in Botany, Horticulture, Forestry, Landscape Gardening and Floriculture.

The University may be reached by either the North High street or the Neil avenue electric cars. Those wishing to go to the principal buildings of the University, to the residences on the grounds, or the Athletic field, should take a High street car going north. Those wishing to visit the Emerson McMillin Observatory, the Veterinary Hospital, Townsend Hall, Horticultural Hall and the Dormitories, will find the Neil avenue cars more convenient.

## BUILDINGS

The University has thirteen buildings devoted to instruction, one Boiler House, one Power House, two Dormitories, six residences and some farm buildings. These buildings represent an investment for construction of about eight hundred thousand dollars. The equipment and apparatus amount to about one hundred and seventy thousand dollars. The land now occupied as a site with the farm is valued at one million five hundred thousand dollars. A new building for the College of Law is in process of erection and the funds are provided for a new building for the Department of Physics.

UNIVERSITY HALL contains the Executive offices, the office of the Secretary of the Trustees, the assembly room (seating twelve hundred persons), four halls for literary societies, the Y. M. C. A. and King's Daughters' room, the Young Woman's League room and class rooms and laboratories for the departments of Economics, English Literature, German, Greek, History, Latin, Mathematics, Pedagogy, Political Science, Philosophy, Physics, Rhetoric and English Language, and Romance Languages. An electric passenger elevator connects all floors.

MECHANICAL HALL contains a room fitted up with cases for the care of models, samples of materials, instruments of precision, etc.; a room for instruction in experimental engineering and mechanism and draughting; and the steam, hydraulic, gas and pneumatic engineering and testing laboratories.

BOTANICAL HALL has on the first floor the lecture room of the department of Botany. There are also an office, a store room, a dark room, and a private laboratory for Physiological Botany. On the second floor is the botanical museum, the main laboratory and the assistant's laboratory. Connected with this building is a large greenhouse and propagating house.

ELECTRICAL HALL devotes the first floor to the dynamo room. The floor of this room is of asphalt, laid on a solid concrete foundation. On the second floor are a lecture and draughting room, a photometric room, a library room, and office, stock and locker rooms.

CHEMICAL HALL is now occupied by the departments of Chemistry, Mining and Metallurgy and Pharmacy. The department of Chemistry occupies the middle portion of the first floor and the middle and western portion of the second floor. The main lecture room has a seating capacity for one hundred and fifty students. The laboratory for introductory work and qualitative analysis has accommodation for two hundred and sixty-four students. There is also a special laboratory for qualitative analysis with accommodations for twenty-five students. The main quantitative laboratory accommodates fifty students. There is also an organic laboratory, a room for the preparation of experiments, a balcony accessible both from the lecture room and preparation room, a room for combustion work, a dark room for spectroscopic work, in addition to a number of smaller rooms used for private laboratories.

The departments of Mining and Metallurgy occupy the east end of the building. In the basement are the smelting furnaces, the assay laboratory, a room for rough work and store room for supplies. On the first floor is the lecture room of the professor of Metallurgy, with a seating capacity for forty; a laboratory with desks for sixteen students, a store room, a balance room, a private laboratory and an office. On the second floor is the lecture room of the associate professor of Mine Engineering, a draughting room, a room for instruments and an office.

The department of Pharmacy occupies the first floor and basement in the west end of the building, and has a lecture room provided for sixty students; a preparation room, a laboratory with desks for twenty-five students; a room for supplies, a balance room, a model drug store and a private laboratory.

ORTON HALL is designed for the permanent accommodation of the large geological collection of the University and for work and instruction in the department of Geology. A portion of it is occupied by the library and reading room. The building is two stories in height, with a high basement, is built of brick and faced with sandstone, and is fireproof throughout. At the right of the main entrance is the geological lecture room and professor's private room; at the left is the University library, reading room and librarian's private room. The central and rear portion is occupied by the geological and paleontological museums. The petrographical laboratory is located on the second floor. In the basement a room is used for work in geographical modeling, the finished models being afterward placed in the collection of such models in a room set apart for the purpose on the second floor. The basement accommodates also the museum of economic geology. A paleontological laboratory or working room is also provided on the second floor.

The greater part of the basement of Orton Hall is occupied as a laboratory by the department of Clay-working and Ceramics. This department is also accommodated with a large room on the first floor for recitation and exhibition purposes. In the rear of Orton Hall is a small brick structure used for the kilns of this department.

HAYES HALL is devoted to instruction in Industrial Arts, Drawing, Civil and Mechanical Engineering and Domestic Economy. On the first floor are two offices, the rooms of the department of Domestic Economy and two lectures rooms, the machine shop, the forge shop and the foundry. On the second floor are the carpenter and pattern shops and six large lecture rooms, with private rooms annexed.

The department of Drawing occupies the third floor for instruction in mechanical drawing and free-hand drawing and photography.

HORTICULTURAL HALL contains recitation rooms and indoor laboratories of the department of Horticulture and Forestry. An extensive greenhouse is attached.

THE VETERINARY HOSPITAL contains on the first floor a veterinary museum and library, a dispensary and two private rooms for the persons in charge. On the second floor are a class room, a bacteriological laboratory and a microscopical laboratory. The rear extension contains an operating hall and a room provided with stalls, cages, etc., for the care of animals under treatment.

THE EMERSON McMILLIN OBSERVATORY is the gift of Mr. Emerson McMillin of New York. The first floor is divided by a hall and stairway into two parts. The east wing contains an office, library, clock room and a large, well-lighted room for the students, furnished with tables, where they reduce their observations and keep the records of their work. The west wing contains the transit house, the dome and photographic dark room. The transit house is a light frame structure, so designed as to be kept as free as possible from heat radiated by any heavy walls of masonry. The dome is a wooden frame-work, covered on the outside with canvas. The rest of the building is of pressed brick, the foundation and second story being "rock-faced."

TOWNSEND HALL is devoted exclusively to the instruction given in the College of Agriculture.

On the left of the entrance is the office of the Department of Agriculture and a private office, a stenographer's room and fireproof vault. Connected with the office on the south is an assistant's room, opening into a laboratory for advanced students. At the extreme south end of this floor is a large laboratory for student-work in soils and farm crops. Connected with this laboratory is a balance room, a store room and an instructor's laboratory. On the west side of the main corridor, and connected with the instructor's room, is a large class room opening into a preparation room with a dark room. This class room is fitted with all



appliances for showing lantern slides of livestock, buildings, machinery, etc. On the same side of the corridor, and on the right of the stairway leading to the basement and second floor, are the class room and instructor's room for dairying. On the right of the main entrance is the department reading room. The north end of this floor is occupied by the museum with an attendant's room.

The north end of the high basement is occupied by the dairy department. This consists of a receiving room, a pasteurizing room, a store room, a refrigerator room, a lavatory, butter-making room, cheese-making room, two cheese-curing rooms and an instructor's room.

In the south end of the basement is a livestock room about forty feet square. One third of this room is occupied by raised seats, the remaining floor space being used for exhibiting and judging livestock. Connected with this is a room fitted with stalls for the temporary accommodation of livestock when needed for class exercises. The basement also contains soil storage room, bath room, toilet rooms, repair shop, locker rooms, bicycle room and janitor's room. A small detached building will furnish steam and power for the dairy department. Detached from the main building, but connected with the soil storage room by a tramway, is a glass house for the study of soils and the experimental growth of plants.

The north end of the second story contains a large student laboratory for the department of Agricultural Chemistry, connected with an organic and analysis laboratory, a balance room, a store room and a private laboratory. The lecture room of this department is at the south end of this floor and will seat one hundred and sixty students on raised seats, with a preparation room adjoining. There is also in this floor a class room connecting with preparation room, store room and instructor's room, which is used (temporarily) by the department of Veterinary Medicine. There is also an extra class room, ladies' toilet and locker rooms and a hall for the use of the Townsend Society, designed to seat about two hundred persons.

BIOLOGICAL HALL is designed for the special accommodation of the departments of Entomology, Zoology, Anatomy and Physiology, and is fully equipped with all the latest and best apparatus for this work. It consists of a basement, in which is done all the work of preparation of subjects for the lecture tables and for the special laboratory work for the advanced students; the first floor, on which are lecture rooms, general and special laboratories, and private work rooms for the professor of Entomology and Zoology and his assistants; the second floor, similarly arranged for the work in Anatomy and Physiology; and a large wing, in which is the museum and a large lecture room. The building is fireproof throughout, and in design and general appearance is one of the most attractive on the campus.

THE GYMNASIUM AND ARMORY was first occupied in January, 1898. The drill hall and gymnasium floor is eighty feet wide by one hundred and fifty feet long. The roof is carried on curved steel arches, lighted from a clear story at the top. There is a running track around the entire room about twelve feet from the floor, back of which is a visitors' gallery seating about seven hundred persons. At the northwest corner of the floor is a stairway leading down to the men's locker and dressing room, while the young women go down a similar way at the southeast corner to their rooms. On the level with the main floor, near the main entrance at the south, is a large room for the use of the Commandant and his classes and rooms for the Director of the Gymnasium. Above the Commandant's room is the room for the officers of the University Cadet Corps.

The basement is very high and well lighted. On the young men's side are dressing and locker rooms, the bath room with shower and plunge baths, a bicycle room, a lecture room, the cannon room, the band room, and a large room, which



is to be the home of the University Athletic Association. On the young women's side are the locker rooms and bath rooms—precisely like those provided for the young men—a bicycle room, lecture room and private office for the instruction in sanitation and hygiene for young women.

THE NORTH DORMITORY is situated at the northern limit of Neil avenue, and fronts Eleventh avenue. It is at the terminus of the Neil avenue electric car line. It is a plain structure of brick, and affords accommodation for sixty-four students.

THE SOUTH DORMITORY stands near Neil avenue within a few rods of the North Dormitory. It is also built of brick, and contains rooms for twenty students.

RESIDENCES. There are seven dwelling houses upon the University campus. Five of these are brick and two are frame structures. One is occupied by the President of the University, five by professors, and the seventh is the farm house.

## LABORATORIES AND EQUIPMENT

### AGRICULTURE

The equipment of this department may be divided along three general lines: the plant, the museum and the illustrative materials.

THE PLANT. This consists of a farm of about two hundred acres, a general farm barn, a horse barn, and several smaller buildings. The farm lies along the Olentangy river, and includes both first and second bottom land. On this farm are grown general farm crops in the rotation deemed best suited to the circumstances of the Department. At present a few experiments are conducted, the general idea being to conduct such experiments as will have the largest instructional value to the students who attend the College of Agriculture. The Ohio Agricultural Experiment Station continues to conduct here the elaborate fertilizer experiments with wheat, corn and oats, which it has been making on this farm during the past five years. Different species and varieties of farm crops are grown to some extent for the purpose of class illustration and instruction, and it is expected to enlarge this feature.

Specimens of the draft, coach and roadster type of horse are kept and used in the farm work. The Department manages a milk dairy; having a herd of about forty cows, composed of pure bred and grade Jerseys and Shorthorns.

The general farm barn contains a well arranged stable for forty cows, with underground drainage and sewage cistern, a milk cooling room, a silo, a roof cellar, a work-shop, with room for hay, grain and other foodstuffs.

THE MUSEUM. This contains a large number of samples of farm products in various forms and their by-products, such as soils, grains, grasses, wools, cotton, forage plants and foodstuff. Milling and other processes are illustrated by samples of the various products of manufacture.

The museum contains Auzoux models, samples of tools and a considerable miscellaneous collection. The collections are intended primarily for student use and not for display.

ILLUSTRATIVE MATERIALS. These consist of charts, pictures and lantern slides showing results of experiments, representative and noted specimens of livestock, farm machinery, fences, buildings, etc. The Department has and uses constantly in the class room a Beseler double oxygen-ether stereopticon. The collection of several hundred lantern slides for this purpose is constantly receiving additions.

THE AGRICULTURAL LIBRARY. While not considered as belonging specifically to this Department, there is in the general library a fairly good collection of books and periodicals devoted to agriculture, a large use of which is required of the student.

THE LABORATORY OF SOIL PHYSICS is located on the second floor of Horticultural Hall, and is supplied with apparatus for the mechanical analysis of soils and for testing their physical properties. (See also BUILDINGS — Townshend Hall)

## ARCHITECTURE AND DRAWING.

The Department occupies the entire third floor and one room on the basement of Hayes Hall, consisting of: 1st. A large studio 35'x80' for free hand drawing, ornament drawing, and pen drawing, provided with adjustable tilting tables, and easels, and lockers. 2nd. A large room 40'x85' for architectural designing and mechanical drawing, provided with 95 O. S. U. drawing tables (30"x36" tops) and lockers: 3rd. Color studio, provided with easels and material for still-life work in oil or water color, and lockers: 4th. Clay modeling studio 26'x32', provided with modeling stands, casting table, moisture box, modeling box, modeling tools, a stove and vent hood for gelatine molds and lockers: 5th. For photography, a well-arranged and equipped dark room and work room provided with printing apparatus, copying cameras, sight view cameras, long, short and tele-photographic lenses, lens shutters and an excellent outfit for photomicrography. A lecture room equipped with stereopticon lantern is available. In addition to the above, the Department possesses models in plaster and wood illustrating the constructive and ornamental forms of the different styles of architecture, a collection of architectural photographs and lantern slides, a collection of architectural drawings and specifications of erected structures, a collection of plates of architectural forms and ornament, instruments for experimental work in heating and ventilating, such as anemometers, hygrometers, carbonic acid tester and thermometers. The heating apparatus of the several buildings provides valuable material for this work. For drawing and color work the Department possesses a collection of good specimens of work, wooden models of geometric forms, plaster casts of fruit, flowers and the antique and material for still-life work. For mechanical drawing, a set of Schroeder models and a collection of shop drawings and facilities for blue-printing.

## ASTRONOMY.

The equipment consists of a twelve-inch equatorial telescope, mounting by Messrs. Warner & Swasey, objective by Mr. Brashear, with a large and powerful spectroscope by Mr. Brashear. This instrument is adapted to use either one or two prisms or a grating, and is provided with a double set of objectives, one corrected for the visual and one for the photographic rays; a positive micrometer with a seven-inch circle by Messrs. Warner & Swasey; a combined zenith telescope and transit instrument of three inches clear aperture by Mr. G. N. Saegmüller; a sidereal clock by Clemens Riefler of Munich; a comparator by Carl Ziliss; a four inch portable equatorial by Alvan Clark; a chronograph by Warner & Swasey; sextants, chronometers, meteorological instruments, etc. In addition to the above, Mr. McMillin's gift provides for an excellent astronomical library.

## BOTANY

The general Botanical Laboratory occupies a part of the second floor of Botanical Hall. It is 23x33 feet, and is furnished with both movable and fixed tables. The latter are attached to the west and south walls near windows, suitably shaded. Water, gas and an evaporating hood are also provided. The laboratory is equipped with compound microscopes of the Baush and Lomb, the Leitz and other patterns; and accompanying each is a tray of tools and a case of reagents. There are more than fifty dissecting microscopes, also charts, and several minor pieces of apparatus for experiments in vegetable physiology. Three smaller rooms are also provided as laboratories for special work, as well as a dark room for photography. Other facilities for the illustration of the courses in botany, and for practical training in the same, are: A general herbarium, including flowering plants, ferns,

mosses, fungi and algae; a state herbarium, a collection of fruits and seeds, valuable timbers, woods, grasses and various economic products of the vegetable kingdom; ornamental grounds and woodland, planted with a large variety of evergreen and deciduous trees and shrubs; and a greenhouse with a fair collection of native and exotic plants. (See also MUSEUM—*The Botanical Museum*; and BUILDINGS—*Botanical Hall*.)

#### CHEMISTRY

The laboratories of the department accommodate from three to four hundred students. Each laboratory is equipped with all the necessary conveniences—water, gas, electric lights, distilled water piped from a large still in the attic, steam ovens, automatic air blasts, suction pumps, etc. The department is liberally supplied with the best apparatus and materials for both lecture room and laboratory work. Each student has his own desk with drawers and locker. All supplies are procured from the chemical store room which has always on hand a complete stock of all necessary materials. (See also BUILDINGS—*Chemical Hall*.)

#### CIVIL ENGINEERING

The facilities provided for the illustration of the courses in civil engineering and for practical training are as follows: One high grade and three ordinary transits, four leveling instruments, solar compass, prismatic compass, improved telescope compass, Abney hand level, level and stadia rods, sight poles, chains, tapes; twenty-six improved drawing tables with 30" by 36" top; Schroeder's models in stereotomy of roof trusses; large set of models of wooden joints; collection of photographs of bridges, both when finished and in course of erection; collections of strain sheets and shop drawings of bridges; new improved cement testing machines and outfit for making all kinds of cement tests; stone mason tools for working models out of plaster blocks; magic lantern and slides; collections of samples of building materials; calculating machines; sets of drawing instruments; blue print room with outfit; sets of tracings of standard structures from which each student may make a set of blue prints. The equipment is growing each year by the addition of materials purchased, presented, or made by students of the Department.

#### CLAY-WORKING AND CERAMICS

The University was the first, and for some time, the only institution in the United States offering facilities for the study of clays, clay-working, and the chemical technology of the ceramic art. In the last two years other institutions have entered this field. The facilities of the Department comprise: 1st. A convenient chemical laboratory, specially designed and equipped for the analysis and decomposition of silicates. Provision has been made for the use of hydrofluoric acid with safety, and the platinum ware has been made to order with this purpose in view. 2d. A complete mechanical outfit for the preparation of clays for pottery manufacture and the production of the ware itself, of any grade from earthen wares to porcelain. The machinery is of the latest types and comprises all important varieties in use for grinding, tempering, washing, filtering and molding. 3d. A similar plant for the manufacture of brick, tiles, pipes and hollow goods. The machinery here is of full size and samples up to a ton in weight can be received and transformed into the finished article by any or all of the standard methods in commercial use. The power for this purpose is derived from a fine electric motor, driven from the University power plant. 4th. A kiln house, equipped with a kiln in which several hundred bricks, or an equivalent quantity of sewer-pipe, stoneware, or pottery can be burnt. The fuel is intended to be coke, except in special cases where the fuel available for burning clay wares is to be made



the subject of test. There is also provided a crucible melting furnace and a muffle furnace for testing glazes. A muffle kiln of large size for burning pottery, glazed ware and decorated wares has also been provided. 5th. A ceramic museum, containing a fine collection of American pottery and clay products of every class, is in process of installation. 6th. A library of the best literature on the subject, mainly German but containing a few English and French works, and the trade periodicals. (See also BUILDINGS—*Orton Hall*.)

The facilities of the Department for study in the field of cement and mortar materials comprise, in addition to the foregoing plant, much of which is especially well suited to this purpose, the following special apparatus. 1st. An improved dry-ball-mill, of chilled iron, for grinding the raw material together, and for grinding the cement clinker. 2d. A small cupola, fired with coke and using air blast, for the vitrification of the refractory silicates used. 3rd. A specially constructed flat-hearth furnace lined with magnesite, and fired with oil and compressed air, for burning cement where the process needs to be interrupted frequently to determine how far vitrification has progressed. 4th. Access to the complete and well-appointed cement testing laboratory of the Department of Civil Engineering.

These facilities permit the Department to offer exceptional opportunities to any who wish to specialize in this important field of manufacture. (See also BUILDINGS — *Orton Hall*.)

#### DOMESTIC ECONOMY

The Department of Domestic Economy (for young women) will secure for the course all that experience and observation may suggest. At present it has a large kitchen, with dining room adjoining, each fitted with the latest and best appliances for the work undertaken. About a thousand dollars has been expended to make this department entirely practical, and to permit its instruction to be thorough and scientific.

#### ECONOMICS AND SOCIOLOGY

The University, through the efforts and generosity of its friends, is possessed of a unique equipment for study purposes in these lines. This equipment comprises a large collection of railroad, municipal and school bonds; of stocks of all kinds; of letters of credit, drafts, foreign bills of exchange, bills of lading, checks, enclosures, statements, insurance policies, trust certificates, notes, mortgages and all the necessary forms of business paper; also collections of coins illustrative of various periods in our monetary history, foreign coins, and scrip; also sets of maps and charts and a Kiepert-Commercial Globe 80 cent. in diameter. Ample facilities for statistical work are provided and a seminary room set apart for the use of laboratory material, documents, etc., is always open to advanced students. It is the policy of the Department to make the statistical investigations and research work of advanced students contributory to the permanent equipment of the Department, thus enriching the facilities from year to year with material of scientific and pedagogical value.

#### ELECTRICAL ENGINEERING

The Electrical Laboratory affords very good facilities for practical experimental work with dynamo machinery and other electrical apparatus. The dynamo equipment consists of twenty-five machines of various makes and sizes from 40 H. P. down; aggregating over 200 horse power. These include direct and alternating current generators, polyphase motors, arc and incandescent lighting generators, railway and station motors and unipolar dynamo. The latter, with an alternating current generator and a 2-phase motor, were built by the students; it being



the policy of the Department to build as much of its apparatus as possible. There are also a number of transformers of different makes, including one for welding,—built at the University. Arc lamps of different styles, a 10-kilowatt-hour storage battery, condensers and resistances, and magnetic testing apparatus also form part of the equipment. The list of measuring instruments is quite complete, and includes a standard Weston voltmeter and eleven other Weston volt and am-meters, also four Kelvin static voltmeters, five dynamo-meters, one watt-meter, three galvanometers and a dozen other am-meters and voltmeters of different makes. A telephone laboratory—with apparatus for comparative tests, a variety of transmitters and receivers, and lines running to another building, has been in use for two years. Photometry is given at present in the Physical Laboratory, where the equipment in this line is excellent. Power for running the dynamo laboratory is supplied by three induction motors from the University Power Plant. This latter is a model 2-phase plant, and the electrical part of it has been for the most part installed by the students of the Department. The repair and maintenance of this plant is done by the students, who receive compensation for the time so spent.

#### GEOLOGY

The University is able to present unusual advantages for the study of Geology. By an act of the Legislature it has been put in possession of all the collections made by the late Geological Survey, and these collections have been supplemented by valuable additions of fossils and minerals from various sources. The State collection embraces a very complete representation of every geological formation shown in Ohio. In its new and ample quarters the Department offers exceptionally good opportunities for work in the lithological, petrographical and modeling laboratories. (See also MUSEUMS—*the Geological Museum*; and BUILDINGS—*Orton Hall*.)

#### HORTICULTURE AND FORESTRY

Among the facilities provided for the illustration of the courses in horticulture, and for practical training in the same, are: (1) a collection of horticultural tools for budding, grafting, pruning, etc.; (2) an orchard, containing well-selected varieties of the apple, pear, cherry, plum and quince; (3) a small vineyard, containing numerous varieties of the grape; (4) a garden of small fruits, containing all the best varieties of the strawberry, raspberry, blackberry, currant and gooseberry; (5) a vegetable garden, with forcing houses, cold frames, experimental plats, conveniences for irrigation, etc.; (6) small nursery and forest tree plantations, with practice rows of budding, grafting, pruning and training; (7) ornamental grounds and woodland, planted with a large variety of evergreen and deciduous trees and shrubs; (8) a greenhouse, with a fair collection of native and exotic plants; (9) a collection of preserved natural specimens, and models of fruits, seeds, woods, etc.; (10) a laboratory fairly well equipped with balances, charts and other appliances for study and research. (See also MUSEUMS—*the Botanical Museum*; and BUILDINGS—*Horticultural Hall*.)

#### THE LAKE LABORATORY

The University maintains a lake laboratory at Sandusky during the summer vacation, where it occupies a convenient building, the former Hatchery building, 22x26 feet located by the city water works and close to the waters of the bay and convenient to good boarding places.

It has good facilities in the way of boats, tables, aquaria, collecting appliances, while microscopes, reagents, etc., are fully supplied from the home laboratory.

It offers for the coming season courses in botany and zoology out-

lined below, and also opportunities for special research in any branch of biology. The professors of the departments of Botany and Zoology and Entomology with their assistants will constitute the staff of instruction.

The courses will be open to students and teachers generally and students of the University may receive credit for courses equivalent to University courses.

Investigators engaged upon special problems relating to the fauna or flora of the region are given the privilege of the laboratory without charge but are expected to furnish their own microscopes or other special apparatus unless otherwise arranged. For the courses of instruction, a fee of twenty dollars will be charged which will cover all expense of instruction, laboratory supplies and use of boats and admit to two full courses of eight weeks.

**COURSES IN ZOOLOGY.** (a) Laboratory and field courses including dissection of type forms, aquaria and field studies with instruction in collecting and preparing material for laboratory use and permanent collections. Special attention will be devoted to fishes and their food supply.

(b) Advanced courses in Invertebrate Morphology or Embryology.

(c) Special courses in Entomology, field and laboratory work.

(d) Special course in Ichthyology devoted particularly to the lake fishes, their habits and food supplies.

**COURSES IN BOTANY.** (a) Laboratory and field courses including a study of type forms. The course will consist of collection trips in the field where the common species of each class are found, classification of familiar forms, study of structure and special parts of interest in connection with each group, with methods of preserving and mounting for immediate use or permanent preservation.

(b) General Botany consisting largely of Morphology and Ecology.

(c) Laboratory course; the work to be arranged.

For further information write for special circular on Lake Laboratory.

#### MECHANICAL ENGINEERING

The greater part of Mechanical Hall is devoted to laboratory purposes.

The south laboratory is used for applied mechanics and for gas engineering. Here are located the machines for testing the strength and elasticity of engineering materials, and recording their physical properties automatically and autographically. Oils are tested as illuminants and as lubricants. Belts and pulleys are tested for their slippage, friction and horse-power transmitted. The gas engine plant has three engines, representing gas and gasoline, three methods of ignition, and fly ball and inertia governors. The air is supplied by a fan through a large meter. Temperatures and pressures of air, gas and water are measured. The fresh and burnt gases are analyzed and their heating values determined by a calorimeter. The power is measured at both the indicator and the brake. The laboratory machine shop and tool room are in this room.

The north laboratory is used as a steam engineering and hydraulic laboratory. Four 35-horse-power engines give facilities for testing single and duplex condensing or non-condensing, simple or compound, throttling or automatic cut-off engines, using either a jet or a surface condenser. Pressure and vacuum gauges are calibrated. Indicator springs of five makers are tested either cold or hot. Five kinds of calorimeters determine the moisture in steam before and after passing three different separators. Injectors are tested for lift, quantity, pressure and steam consumption. Steam pumps of six makes, ranging to 800 gallons per minute capacity; two centrifugal and a rotary pump, enable tests of pumps to be made and deliver water at pressures below 150 pounds to two stand-pipes, which in turn supply turbine and cascade, and Pelton water wheels, and enable experiments to be made on the flow of water through orifices, pipes, valves, etc. Three cisterns, provided with a variety of weirs up to five feet wide, give practice in measuring

flowing water. A Venturi meter and a Pilot tube are also used. Ericsson and Rider hot air engines are tested. A Rife hydraulic engine, a Humphreys ram, Gem and Eureka water motors, and a pulsometer, are included in the hydraulic apparatus, all of which are connected and prepared for complete tests.

A complete set of Westinghouse air-brake apparatus, a blower and a ventilating fan, enable experiments to be performed in the flow of air. They are supplemented by tests of the heating and ventilating plants in the buildings of the campus.

In addition to the apparatus and equipment of the power plant of the University the power house at Townshend Hall contains a horizontal, return tubular boiler, two steam engines and an ammonia refrigerating machine, making the facilities on the campus for testing quite complete. Machinery, apparatus and appliances are continually being presented, built or purchased, and the student is given an opportunity to test everything under practical conditions of operation. Besides the laboratory facilities, opportunities frequently arise to test machinery, engines or boilers in the city, and in these tests the students take part.

The buildings of the power plant were completed in 1896, and, with their contents, form a model plant. The boiler room is 38 by 100 feet, and is equipped with five 150 H. P. boilers, with Babcock and Wilcox chain grates and Murphy automatic stoker. There are also coal and ash conveyors for the whole plant. At one end of the boiler room is the coal room, and at the other the pit for the hot well, from which runs the tunnel (about three-fourths mile in length) to the buildings of the University, carrying heat, gas and water-pipes and power, light and other wires.

Near the boiler house is the power house, 40 by 60 feet. The power generating plant consists of a 70 Horse Power McEwen compound engine, belted to a 60 kilowatt 2-phase Westinghouse Alternator, and a 200 Horse Power Watertown Compound, direct connected to a 125 kilowatt 2-phase generator. These occupy the main floor, together with a complete marble switchboard, with ammeters, voltmeters, wattmeters, static ground detectors, etc. A ten-ton traveling crane is available for handling the machinery in this room.

In the basement are condensers, which get their water from a large cooling reservoir at the side of the building. Here also are the transformers that convert the current to be used in the motors scattered over the campus, from 110 volts, at which it is generated, to 400 volts, at which it is transmitted.

There are installed on the campus over eighteen hundred incandescent lamps, twenty-four arc lamps and about 250 H. P. in motors. The electric plant is for the most part of the Westinghouse system. The buildings are of brick. Nearly all of the University buildings are heated by steam from this plant. The total cost of the plant for generation of power, light and heat, and for its transmission to the buildings, has been something over \$100,000.

In order to facilitate experimental and research work in the direction of combustion of fuels under variable conditions as applied to steam generation, there was installed during the past year in the University boiler house, a most complete experiment boiler outfit. This equipment was furnished by Stillman W. Robinson, Emeritus Professor of Mechanical Engineering, who not only established the Department of Mechanical Engineering at Ohio State University and for many years was its head, but was the originator of the first Mechanical Engineering Department in this country connected with a state university, that at Champaign, Ill.

A Babcock & Wilcox boiler of 107 H. P., built for a working pressure of 200 lbs., with hand-fired furnace of the oven fire-brick type, is the principle of the system. The products of combustion after passing the boiler can be conducted direct to the open air by the chimney or otherwise, or into a Green's fuel economizer, where its 570 sq. ft. of heating surface transfers heat to the feed water



on its way to the boiler. The heat of the escaping gases can still further be absorbed by an air heater having 1,330 sq. ft. of heating surface. The heat thus taken up is transmitted to the air employed in the fuel combustion.

For promoting combustion, natural draft may be employed, or when greater intensity of draft is desired above that produced by the chimney, the latter can be cut out and a Sturtevant induced draft fan, driven by a direct connected engine, brought into action. In combination with either mechanical, induced or natural draft, forced draft produced by a belt-driven Sturtevant fan may be employed, and the air forced into the ash pit may be taken from the boiler room direct, or by a system of underground flues be compelled to pass through the air heater on its way to the fan.

Weighing and collection tanks, in conjunction with a steam pump, supply the boiler with known quantities of water which flows by the way of the economizer or to the boiler direct. In this feed water system is a Hayden's feed water purifier with live steam heater, which may be used in conjunction with the economizer.

Draft intensity and temperatures are determined at many points throughout the system, a Le Chatelier pyrometer being used for high and mercurial pyrometers for low temperatures.

An Arndt's econometer indicates continuously the percentage of carbon dioxide in the escaping gases, while at the same time the Orsat's apparatus is used for giving absolute composition. The composition of the fuels employed and their calorific values are determined in the department of Metallurgy.

The plant as a whole admits of many combinations, thereby being able to meet almost every condition in practice.

#### METALLURGY

The metallurgical laboratory has all the appliances for the most modern methods of technical analysis as practiced in iron and steel laboratories, including gas analysis. A furnace room in the basement is fitted for gold and silver assaying, with improved muffle and crucible furnaces.

The lecture room in metallurgy has arrangements for projecting photographs of machines, mines and furnaces, for class illustration, and there is a large collection of such views. There is a photographic room with blue-printing facilities, where students learn to make copies of the drawings used in illustrating the lectures.

A collection of minerals and rocks with a large set of rock sections is provided for illustrating the mineralogy, as well as sets of blow-pipe apparatus for the students in determining mineralogy. (See also BUILDINGS—*Chemical Hall*; and MUSEUMS—*The Geological Museum*.)

#### MINE ENGINEERING

The Department is equipped with all of the latest improved instruments and apparatus used in mine engineering, surveying and the study of mine ventilation. There is a collection of models of mine machinery and supplies, to which additions are being made which are valuable as illustrations. The draughting room is large, well lighted and provided with a desk for each student, where he is personally taught map making and the platting of actual surface and underground surveys; the making of tracings of drawings and how to make blue-prints. He is also taught the proper methods of keeping notes and all records necessary to an efficient engineers' office. The students are given practical experience by making actual surveys of coal mines and in working up their notes complete in all of the necessary details. The students are also taught how to make working drawings, plans, estimates and specifications of mining operations and equipment.



The lecture room has arrangements for projecting photographs of machines, mines and mine equipment, for class illustration, and there is a collection of such views. Also photographic room with blue-printing facilities, where students learn to make copies of the drawings made by themselves and those used in illustrating the lectures.

#### PHARMACY

The facilities provided for illustration of this work and for practical training are as follows: The apartments assigned to this work occupy the west end of the Chemical Hall, first floor and basement. The lecture room will accommodate sixty students, and is provided with a large lecture table and supplied with gas and water, and other conveniences for experiment. About the walls are arranged cases in which are exhibited rare and costly chemicals, curious drugs, and high-grade pharmaceuticals. Adjoining this room is the preparation room and storeroom, where the supplies and apparatus and material are kept, and where the apparatus for experiment and illustration before classes is prepared. Also adjoining this room is the professor's private laboratory. The main laboratory has desks for thirty-five students, each one provided with gas and water, and sufficient storage space for material and apparatus. The laboratory is furnished with apparatus for distilling, and reclaiming, with mills, balances, drying closets, steam vaporizers, hoods and other special apparatus for pharmaceutical work. Opening into the laboratory is the drug store. This drug store is complete, and is in itself a cabinet of official drugs, and all preparations thereof. It is provided with a prescription desk and all apparatus adapted for training in prescription work. Adjoining the laboratory is the reading room, where are kept the various pharmaceutical journals, the dispensaries, and many books of reference. Also adjoining the main laboratory is the balance room, which is well provided with analytical balances, specific gravity balances and microscope, all of which are intended for higher pharmaceutical work.

In the reading room is also a cabinet of crude drugs, which have been classified and numbered but bear no name. This cabinet is adapted to the study of pharmacognosy.

In addition to the foregoing equipment, the Department is possessed of an extensive range of apparatus, by means of which any branch of work in pharmacy can be successfully pursued. The Department is complete in all its details, and affords unexcelled opportunity for the study of pharmacy. (See also BUILDINGS—*Chemical Hall*.)

#### PHYSICS

The Department has an excellent equipment of apparatus, to which additions are constantly being made. The apparatus includes a large collection of pieces for illustration of the general lecture room work, but is principally chosen for accurate measurement in the laboratory. A set of standards of length, capacity and mass, sent under the act of Congress supplying such sets to the several agricultural colleges, is in the possession of the Department. The pieces are copies of the United States standards made by the Coast Survey at Washington.

Among the principal pieces of apparatus are a dividing machine by Fauth & Co.; chronometers by Parkinson & Frodsham and by Negus, the latter a break-circuit; a chronograph by Fauth & Co.; a Hipp's chronoscope; cathetometers by Salleron and by the Geneva Society, the latter an exceptionally fine instrument; Regnault's apparatus for vapor tension, for expansion of gases and for specific heat; Melloni-Tyndall apparatus for radiant heat; standard thermometers by Baudin and others; Rutherford and Rowland, different gratings; Rowland's spectrum photographs; spectroscopes by Brashear, Browning, Apps and others; Dubosecq's complete apparatus for projections in polarized light; lanterns for pro-

jections by the lime light and the arc light; a variety of sound apparatus from Koenig; portable and quadrant electrometers; Kelvin galvanometers of high and low resistance; Weidemann, Kohlrausch and other galvanometers; standard resistance coils, with Cavendish laboratory certificate; several sets of resistance coils and bridges; a Kew magnetometer; Kelvin standard balances; Weston ammeters and voltmeters; standards of self-induction; standard battery cells; photometric standards and photometers; X-ray apparatus, etc.

Under the laws of Ohio, the professor of physics is *ex officio* State Sealer of Weights and Measures, and all of the standard weights, measures and balances received from the United States government are in the rooms of the Department.

#### PHYSIOLOGY.

The facilities provided for the study of anatomy, bacteriology, histology and physiology are excellent. The laboratory is supplied with skeletons, papier-mache manikin, and many models, including models of the eye, ear, larynx, etc. The apparatus of the Department for work in bacteriology and physiology is of the best and most approved construction, and is adapted to the accurate investigation of bacterial forms, as well as to the thorough performance of the fundamental physiological experiments. Myographs, spectrosopes, microscopes and the necessary chemical outfit are also provided. For work in histology the equipment includes twenty-four individual tables for student experiments, each table being supplied with a good microscope, microscopical accessories, microscopical reagents; and for advanced work, the needed apparatus for instruction in the various methods of hardening, staining, imbedding, section-cutting and injection. The laboratory also has excellent microtomes, imbedding baths and other essentials of a histological outfit. The equipment of the laboratory makes it possible to offer a large range of work for the choice of students in advanced courses. (See also BUILDINGS—*Biological Hall*.)

#### PSYCHOLOGY AND EDUCATION

The psychological laboratory occupies three rooms on the fourth floor of University Hall and is reasonably well equipped for work in physiological and experimental psychology and for research in related educational lines. For the study of motor processes and development the most improved form of ergograph with complete sets of myographic, chronographic, dynamometric and pneumatic recording appliances, has been provided. A complete outfit of apparatus for the study of sensation, memory and association make it possible for students of education to acquire methods of exact observation of the various mental and motor processes involved in school work. Provision has also been made for work in comparative psychology.

#### SHOPWORK

The shops, which occupy the north wing of Hayes Hall, afford excellent facilities for instruction in both the practical details and the underlying principles of carpentry, pattern-making, forging, moulding, foundry work and machine work.

The carpenter and pattern shop is equipped with twenty-five benches with complete sets of carpenter tools for each and a large number of special tools for general use, twenty-three pattern-makers' turning lathes with cupboards containing the necessary turning and pattern-making tools under each, an eight-foot pattern-maker's lathe with compound rest, a pony planer, a buzz-planer, a circular rip and cross-cut saw, a scroll saw, a trimmer and a power grindstone.

The forge shop is equipped with twenty stationary forges with anvils and tools for each, a heating forge, a portable hand forge, a foot-power hammer, a

blacksmith's drill, and punch, shear and bar cutter. The blast for the forges is furnished through underground piping by a 45-inch Buffalo pressure blower, and the smoke is removed by a 55-inch Buffalo exhaust fan overhead. Both of these fans are driven by a 15-horse-power electric motor.

The foundry is equipped with a 24-inch Colliau cupola, the blast for which is furnished by a 30-inch Buffalo blower; two brass furnaces, one 16 inches in diameter and the other 20 inches in diameter; a core oven, benches for iron and brass moulding, core making and cleaning of castings, a space for floor moulding 30 feet by 40 feet, besides all the necessary moulding tools, flasks, crucibles, ladles, tongs, etc.

The machine shop is driven by a 30-horse-power electric motor from above, and is equipped with the following tools: Twenty-eight benches for vise work with complete sets of tools, eight speed lathes, sixteen engine lathes, a Fox monitor turret lathe, two planers, two shapers, a milling machine, an upright drill, a sensitive drill, grinding machines for both plane and cylindrical surfaces, tool grinders, emery wheels, etc. This machinery is furnished with all the necessary tools, and the tool room is equipped with full sets of drills, taps, dies, milling cutters, standard plugs, gauges, threads, etc., micrometers and a great variety of special tools. (See also BUILDINGS—*Hayes Hall*.)

#### VETERINARY MEDICINE

The Veterinary Hospital affords excellent facilities for the treatment and care of animal patients, and also gives the students the opportunity to become practically familiar with the diseases to which our domesticated animals are subject. It contains box stalls, stalls for cold water applications, a large and well lighted operating hall and a special ward for dogs. The front part of the Hospital contains a lecture room, a museum of anatomical and pathological preparations, a drug dispensary and an office. In the museum are skeletons of the horse and ox, a complete manikin of the horse, papier-mache models of various anatomical parts, pathological specimens preserved in alcohol, etc.

In the library are choice collections of works in veterinary medicine and allied sciences and also copies of the leading veterinary periodicals.

The College is well equipped for surgical work. Instruments of the latest and most approved makes are kept in the instrument room for use in operations.

In the daily clinics not only are horses and dogs presented, but also the meat-producing animals from the barn, near the College.

The bacteriological laboratory in the biological department is supplied with apparatus of the most modern and improved construction, the microscopic appliances being adapted to the most accurate work in bacteriology. (See also BUILDINGS—*The Veterinary Hospital, Biological Hall*.)

#### ZOOLOGY AND ENTOMOLOGY

Instruction in this department is largely by the laboratory method with lectures and use of text or reference books, the effort being to lead the student to observe and think for himself. The various courses are intended to provide instruction in the elements of the science, familiarity with methods of study and investigation, and opportunity for special research involving field, laboratory, museum and library work. The adjacent fields, wood, lake and river; the various well equipped laboratories, extensive collections and libraries furnish excellent opportunities for every phase of the study.

The Department occupies the first and third floors of the fine new Biological Hall providing two lecture rooms, one general and five special laboratories, museums, offices for professor and assistants, besides room for storage, work-



shops, aquaria, cold-storage, photography, etc. The laboratory equipment includes microscopes, microtomes, incubators, injectors, etc., for most approved methods of work in morphology, embryology and neurology. The collections include a fine series of skeletons, a number of large mammals, series of the birds of Ohio, of the birds of North America, of Ohio fishes, of mollusks and especially rich collections of insects particularly in Odonata, Hemiptera and Diptera. (See also THE MUSEUMS—*The Zoological Museum, Biological Hall.*)

The Lake Laboratory maintained at Sandusky and open during the summer vacation offers courses of instruction and exceptional opportunities for original investigation in a very interesting and delightful locality. (See Lake Laboratory.)

## THE MUSEUMS

THE GEOLOGICAL MUSEUM of the University has been collected and arranged with reference to instruction rather than to display. The basis of it is a large and comprehensive collection of the rocks, fossils and economic minerals of Ohio. The collection embraces the following named series:

(a) An excellent representation of the leading divisions of the geological scale of the State, so far as it can be illustrated by rock specimens. The specimens represent the leading phases of each formation, and in many cases carry the characteristic fossils of the horizons from which they are derived.

(b) A collection of the animal and vegetable fossils of the rocks of Ohio. This series includes a large majority of the described fossils of our formation, and in the number are many type specimens. While all the ages of our geological history are well represented, the collection of the Upper Silurian and Devonian animal fossils is particularly rich and complete. A remarkably fine series of coal plants is also included in the museum. The list of fossils has been greatly extended in the number of species and individuals by the recent purchase of the collection of Mr. Henry Moores, of Columbus.

(c) The economic minerals of the State are also shown to excellent advantage in the museum. The coals, petroleums, iron ores, clay and building stones produced in Ohio are represented in large collections. Many of the specimens upon which chemical examinations or physical tests have been based in the work of the geological survey of the State are included here.

(d) Petrographical collections: These collections were selected with a view to their use in petrographical instruction, and embrace the Hawes collection, the Krantz collection and the Rosenbusch complete series of typical rock specimens from important centers abroad. These hand specimens are supplemented by two series of thin sections, including Voigt and Hochgesang's collections of typical rocks and of the petrographically important minerals.

In addition to the collections-above described, the museum contains a great deal of valuable material in the line of general geology and mineralogy. Among other things it includes several valuable suites of ores and many fine mineral specimens.

There also belong to the museum a number of geological casts, models and maps. In this series are included a relief map of the State of Ohio, and also the models of the basins of the Atlantic ocean and Caribbean sea, prepared under the supervision of the United States Coast and Geodetic Survey.

The catalogue of the museum contains more than 10,000 entries; but as only one number is as a rule given to a fossil or a mineral species, the individual specimens make an aggregate list of many thousands in addition to the catalogue list, and probably double this list.

The skeleton of a mastodon, one of the extinct elephants of Ohio, has recently been presented to the museum by N. S. Conway, of Catawba, O., on whose farm



it was found. It has been mounted by Prof. H. A. Ward, of Rochester, N. Y., and proves to be one of the largest in the country.

The museum also has a mounted skeleton of *Megalonyx Jeffersonii*, one of the great ground sloths. This specimen has the distinction of being the first and thus far the only mounted skeleton of this animal in the world. The bones were discovered by Abraham Drushell and others in a swamp in Berlin township, in Holmes county, O., in 1890. They were mounted in Ward's Natural Science Establishment, Rochester, N. Y. The entire outlay involved in the purchase of the bones and in mounting them was borne by Mr. Emerson McMillin, of New York.

THE ZOOLOGICAL MUSEUM is located on the ground floor of the wing of Biological Hall. The foundations of a zoological museum have been laid and the work begun on a generous plan. Every effort is being made to secure and preserve excellent specimens in all groups of animals. Not only the adult animals are preserved but the preparatory stages as well, their work and architecture, in fact all that can illustrate the life-history and habits.

Among special features are the Wheaton collection of birds of Ohio, numbering about 1,000 skins; a collection of North American birds, about 1,500 skins, representing very fully the North American fauna; a number of fine specimens of larger mammals, moose, hippopotamus, deer, tiger, peccary, lion, tapir, etc., most of which have been generously donated by Sells Brothers; a collection of about 3,500 molluscan shells; a fine series of Ohio fishes; numerous reptiles, amphibians, etc.

There is an excellent series of skeletons, crania and alcoholic material for courses in comparative anatomy.

The collection of insects is being rapidly enlarged and the purchase of the Kellicott collection of Odonata makes it especially rich in that order.

Professor Osborne's private collection of Hemiptere is deposited in the Department and available to students for comparison and study.

THE BOTANICAL MUSEUM occupies the second floor of Botanical Hall. It contains the general University herbariums, and the State herbarium, over 30,000 mounted sheets, also Professor Kellerman's private herbarium of over 20,000 specimens reposit for use in the Botanical department; a complete collection of the native woods of Ohio: a collection of the seeds and fruits of plants; a collection of native medicinal plants; a general collection of vegetable products, including seeds, textile fabrics, coloring substances, etc., illustrating economic or applied botany.

THE AGRICULTURAL MUSEUM. For a description of this museum, see BUILDINGS—*Townshend Hall*.

THE ANATOMICAL AND PATHOLOGICAL MUSEUM. For a description of this museum, see Laboratories and Equipment, Veterinary Medicine.

THE MUSEUM OF CLAY-WORKING AND CERAMICS is now in process of formation. Some excellent specimens of ceramic products have already been collected, and efforts are being made to increase the collection.

ARCHAEOLOGIC COLLECTION. Orton Hall now contains the second best archæologic exhibit in the Ohio Valley, the total number of specimens owned by the Ohio State University, the Ohio State Historical and Archæological Society and by private individuals, amounting to 46,200. Although the Museum is but three years old, it has shown a remarkable growth.

Field work has been carried on in various parts of the State during the summers of 1894, 1895 and 1896, and as a result the contents of more than eighty mounds, graves and village sites are now on exhibition. The chief exhibits, illustrating the life of ancient tribes are from Fort Ancient in Warren county, from the mound graves of the lower Scioto and from the Muskingum Valley. It is consid-

ered that in Ross county aboriginal culture reaches its highest development in the whole Ohio Valley. This fact is well attested by the presence of numerous copper objects, effigy pipes, fine ornaments and ceremonials, pottery, delicate work in polished stone and flint implements, etc.

The collection from the valley of Brush Creek and along the Ohio itself, and from the hill regions of Ohio, show a much lower grade of culture. Careful comparison of the work of man from these localities is exceedingly interesting.

There is an exhibit from Flint Ridge, illustrating the manufacture of arrow and spear heads. The Museum contains nearly 150 specimens of pottery from Missouri and Arkansas, many of which are effigies of animal, bird and human form.

The founders of the Archæologic Museum are arousing public interest in the preservation and study of Ohio antiquities; and by means of exchanges, lectures and personal solicitation, the growth of the collection is considerable.

## LIBRARIES

### THE UNIVERSITY LIBRARY

The University Library, containing about forty thousand volumes, is located in the east end of Orton Hall. The system of department libraries prevails to a limited extent, small collections of books specially needed in connection with laboratory and class room work being deposited in several departments.

During term time the Library is open six days in the week, legal holidays being excepted. From Monday until Friday the hours are from 7:30 a. m. until 9:30 p. m.; Saturday from 7:30 a. m. until 4 p. m.

The management of the Library is vested in a Library Council which is composed of the President, the Librarian and the Deans of the six colleges.

### STATE LIBRARIES

Students are privileged in being near the two State libraries.

The Ohio State Library numbers about 70,000 volumes and is a circulating one for all the citizens of Ohio. It occupies a room in the State House.

The State Law Library, also in the State House, is the largest and most complete law library in the State. It contains complete sets of the English, Scotch, Irish, Canadian, United States and State reports, statutes and digests. The important legal periodicals are on file.

### CITY LIBRARIES

The students of the University, as residents of Columbus, have access to the City Library and the Public School Library, under the usual regulations. The City Library numbers 28,000 volumes. It has specially pleasant reading and reference rooms. The Public School Library numbers 35,000 volumes, and is a well selected collection of books. Students will find both libraries valuable in supplementing the University Library.

### SPECIAL LIBRARY IN ECONOMICS

The University possesses a special library in Economics consisting of several hundred volumes and pamphlets. Over thirty financial, commercial and trade journals are received and filed regularly. The business men of Columbus have contributed over \$1,200 for the equipment of this commercial library.

## SPECIAL LIBRARY IN ZOOLOGY AND ENTOMOLOGY

The Department of Zoology and Entomology possesses a special library the nucleus of which was the scientific library of the late Prof. Kellicott which was generously donated to the Department. This has been increased by gifts of special papers by a number of the leading investigators of the country and will be enlarged as rapidly as possible. The private library of the professor is also accessible for reference.

## AIDS TO MORAL AND RELIGIOUS CULTURE

One of the most commendable organizations in the University a branch of the International Young Men's Christian Association, organized in 1883. This association is directly affiliated with the work for young men directed by the college department of the State Y.M.C.A. work. Services are held weekly and voluntary classes for Bible study are successfully organized. The local association has a secretary who devotes his entire time to work among the young men. The management has rented a house at Highland and Eleventh avenues as headquarters for the Association. It is hoped that in the near future a permanent home for the Association may be provided.

An equally commendable organization is the Y. W. C. A., affiliated with the State organization. Religious meetings are held regularly at noon on Tuesdays. Occasionally meetings for social purposes are held as provided for by the organization. Both of these organizations are worthy of public consideration.

New students are invited to write to the address below for a hand book of information concerning the University or for information concerning rooms, boarding or employment. Address J. P. Davies, Columbus, Ohio.

## THE CONVOCATION.

At the opening of the year in September, 1900, the daily chapel exercises were abandoned. As a substitute for the short daily exercises an entire hour is now devoted to a convocation at which the president presides. In addition to devotional exercises an address is delivered upon some suitable topic. During this hour the libraries and laboratories are closed and no other University exercises occur. It is expected that the Faculty and students will attend. The hour is definitely fixed at ten o'clock on Wednesday of each week. The public is always welcome at the Convocation.

## LITERARY AND OTHER SOCIETIES

The Alcyone Literary Society, open to young men, was founded in 1874; the Horton Literary Society, open to young men, was founded in 1875; the Athenæan Literary Society, open to young men, was founded in the winter of 1896-'97. The Browning Literary Society, founded in 1883, and the Philomathean Literary Society, founded in 1894, are open to young women. These societies have commodious and well furnished apartments in University Hall. They meet weekly, and their work, offering to the student a very desirable training in composition, public speaking, and parliamentary order, is a valuable adjunct to collegiate education.

The Townshend Literary Society was established in 1883 as a technical society under the name of the Kirtland Agricultural Society. In 1894, the name Townshend was substituted. In 1898, the Society changed its constitution so as to admit any student of the University and thus became a literary rather than a technical society. It meets weekly in its commodious and well arranged society room in Townshend Hall.



The Biological Club is an organization of professors and students for mutual assistance and improvement in the line of natural science. Its meetings are regularly held every two weeks, at which papers are read, notes of observation and research presented, and current biological literature discussed.

The Chemical Association, composed of the more advanced students and instructors in the Department of Chemistry and Pharmacy, has for its object the discussion of such subjects as are of importance to students of chemistry, special stress being placed on recent discoveries. The meetings are held semi-monthly and are of great interest. Both professors and students contribute to each program.

The Political Science Club is an organization of instructors and students in political science and history for the consideration of questions in those fields. At the regular bi-weekly meetings papers are read, researches reported, and current questions and publications in political science, considered and discussed.

The Engineering Society is a similar organization of students and instructors, holding meetings bi-weekly, for the consideration of questions in the various branches of engineering.

The Organic Evolution Club was organized in the winter of 1896-'97 by those students and members of the Faculty especially interested in the study of Evolution. The Zoological Department has a similar club known as the Journal Club.

The O. S. U. Dramatic Club was organized in 1893. Its object is to present each year to the University world one of the standard legitimate dramas. Its membership is confined to University circles.

The musical organizations of the University are: The O. S. U. Glee Club, composed of sixteen members; the O. S. U. Mandoline and Guitar Club of twenty members; the O. S. U. Banjo Club of five members; the O. S. U. Orchestra of fifteen members; the O. S. U. Male Quartet and the University Cadet Band.

The Ornithological Club encourages observation and research in the study of birds and their habits, especially of our native species. The Wheaton collections in the possession of the University form a basis of study. The programs consist of papers and discussions and reports of observation and personal work. Anyone interested in birds is eligible to membership and visitors are always welcome. The Club meets on the second and fourth Monday evenings of each month.

The O. S. U. Sketch Club has for its purpose the promotion of art interests among the students and ex-students. Any one who is or has been connected with the University in any capacity is eligible to membership. The members meet once a week and sketch from the draped human figure. Twice a month the members present sketches illustrating some word, etc., previously selected. All work is criticised by members of the club for mutual benefit.

The English Club, composed of the instructors and advanced students of the English departments, holds bi-weekly meetings at which new books in current literature are discussed and papers on literary topics are presented.

The William F. Hunter Society, in the College of Law, meets for moot-court practice and quiz-work every two weeks.

## MILITARY SCIENCE AND TACTICS

Under the law of Congress establishing the University, it is required that instruction shall be given in military science and tactics. In accordance with this provision an officer of the regular army has been detailed to take charge of the Department of Military Science and Tactics; and the Trustees have directed that all male students, except those in the Law College, and such others as may be specially excused for physical disability or for having reached the age limit of twenty-five years, shall render two years of cadet service as a condition of grad-



uation. Special students are required to take the cadet service. From the opening of the year until Thanksgiving recess cadet service is required four times a week; from Thanksgiving until Spring recess cadet service is required twice each week and gymnasium practice twice; from the Spring recess until the first of June cadet service is required four times each week. A uniform has been prescribed with which each member is required to provide himself; and fifty minutes a day are devoted to drill, except on those days when instruction in tactics and art of war is given.

The course of instruction is both practical and theoretical. It is given by means of a systematic drill, supplemented by lectures and recitations, and is so arranged as to occupy five hours per week throughout the year. For purposes of drill, all students enrolled in the Department are organized in a battalion, the officers of which are selected from those students who have shown special proficiency in their University work and the work of the Department. Commissioned officers and non-commissioned officers receive certificates of satisfactory service, issued by the University. A cadet band has been organized in connection with this Department, and is supplied with instruments belonging to the University and to the cadets.

The practical course in infantry embraces all the movements prescribed by the drill regulations of the U. S. Army applicable to a battalion. Instruction in artillery embraces such portions of the United States drill regulations as pertain to the formation of detachments, manual of the piece, mechanical maneuvers and aiming drill. Instruction also includes duties of sentinels, the various ceremonies performed by troops, and military signaling. The theoretical instruction includes a systematic and progressive course in drill regulations of the U. S. Army, the organization and administration of the U. S. Army and the elementary principles governing in the art of war.

Competitive drills are held yearly for two medals; one, the first prize, of gold, presented to the University by the M. C. Lilley Co., of Columbus, Ohio; the other, the second prize, of silver, presented by Lieut. Wilson, when commandant. These medals remain the property of the University, the winner wearing them until the next competition. The "President's Prize" consists of an officers' sword, given to the captain of the company having the best record for attendance for the year.

The equipments of the Department consist of three hundred Springfield cadet rifles and sets of infantry equipment, twenty officers' swords and belts, the necessary equipment for instruction in signaling, and a few instruments for the band.

The U. S. Ordnance Department furnishes an annual allowance of one thousand rounds of ball and one thousand rounds of blank cartridges for cadet rifles.

### PHYSICAL EDUCATION.

The physical education is given by the director in charge, assisted by Miss Berryman, who has charge of the work for the young women. The large drill hall is used by the women in the forenoon and by the men in the afternoon.

The exercising floor, 80 x 150 feet, is thoroughly equipped with the best apparatus in duplicate. The running track is fourteen laps to the mile, with graded elevations at the curves to meet the requirements of the different rates of speed. The track is laid with felt an inch in thickness, three and a half feet wide and covered with rubber coated canvas.

The work is required for the first and second year students. The course consists of theoretical and practical work in the gymnasium, and includes calisthenics, light and heavy gymnastics, physiology of exercise, physical examinations and measurements. It is intended to give the student such a training in the methods of Physical Education that he may have a comprehensive knowledge of the subject.

A thorough physical examination of each student is made at the opening of the year, and the measurements are outlined on charts, so as to show the parts below the normal development, for which special exercises suited to the health and physical condition of each individual will be suggested. These charts are constructed from the accumulated data of several thousand measurements of college students. Experience demonstrates that the body, as well as the mind, is susceptible of right and wrong development. Every part of the body can be strengthened and increased and the relation of one part to another can also be changed so as to correct imperfections.

Class leaders who act as floor aids are selected from among those who show a proficiency in the work. These students are given a certificate of their appointment as Aids, and the letter A in scarlet, which they are entitled to wear on their gymnasium suits.

It is the aim of the department to secure health, vigor and such harmonious development of the body as will fit it to resist disease and prepare it for efficient service, both now and later in life.

The gymnasium is free to all students, but those desiring a locker will be charged a fee of one dollar a term.

## OHIO FORESTRY BUREAU

This Bureau has been established and located at the University by the Legislature for the purpose of inquiring into the best means of preserving and utilizing the forests of the State.

## TERMS AND VACATIONS

The first term of the University year begins on the Tuesday following the sixteenth day of September and closes on the Wednesday following the 17th day of June. The first term closes on the Wednesday preceding Christmas; the second term begins on the Tuesday following the first day of January and closes on the Friday preceding the first Monday in April; the third term begins on the Wednesday following the close of the second term. The second semester begins on Monday of the eighteenth week preceding commencement week; and the first semester closes on the Friday preceding the opening of the second semester.

Regular college exercises are suspended from 4 o'clock p. m. of the Wednesday preceding Christmas until 8 o'clock a. m. of the Tuesday following the first day of January; on Thanksgiving and the day following; on University day which is the twenty-second day of February; from 4 o'clock p. m. of the Friday preceding the first Monday in April until 8 o'clock a. m. of the Wednesday following the first Monday in April; and on Memorial Day.

## FEES

INCIDENTAL FEE.—A charge of eighteen dollars a year is made against all students, under the head of incidental expense. In the case of former students if this fee is not paid until the second day of the term one dollar will be added, and for each succeeding day of delinquency fifty cents will be added.

LABORATORY FEES.—Students in the laboratories and shops are required to pay fees to cover, in part, the cost of the material consumed, and the deterioration of the expensive instruments used by them. The fees charged per term in the laboratories mentioned below are as follows:

Agriculture, 6.....	\$10 00
“ 15.....	5 00
Anatomy and Physiology, 4, 9, 11.....	5 00

Botany, 3, 4, 6, 7, 8, 11, 16, 21, 22, 23.....	2 00
"    24, 25, 27, 29.....	2 00
Ceramics, 1, 2, 3.....	1 50
"    9, 10, 11.....	5 00
Chemistry, 1, 2, 7, 9, 12, 13, 15, 17, 20, 22, 27, 29.....	1 50
Domestic Science, 1, 2, 3, 4, 11, 12, 13.....	5 00
"    "    5, 6, 7, 8, 9.....	1 00
Drawing, 7.....	2 00
Elec. Engineering, 4, 5, 4 or 5 hrs., \$7.00; 3 hrs. or less.....	5 00
"    "    6 and 7 combination.....	5 00
Law when elected 5 hours or less, per semester.....	7 50
Metallurgy, 3, 5, 6.....	1 50
Mechanical Engineering, 12, 14, 15, 17, 24, 25, 27, 28, 29, 30.....	5 00
Pharmacy, 7, 8, 9, 10, 11, 15, 17, 18.....	1 50
Physics, 12, 13, 15, 3 hrs., \$5.00; over 3 hrs.....	7 00
Shopwork, 4 hrs, or less.....	5 00
Shopwork, 5 hrs. or more.....	7 00
Zoology and Entomology, 2, 12, 13, 14, 23.....	7 50
Zoology and Entomology, 4, 7.....	1 00

The fees of the College of Law are \$30 per semester, including the usual incidental fee.

In the laboratories of the Department of Chemistry and Agricultural Chemistry, each student is required at the beginning of each term to pay a fixed charge of one dollar and fifty cents for gas and water. He is also required to buy his own supplies, as he needs them, at the general storeroom in Chemical Hall, where laboratory supplies are sold to students at first cost to the University.

*All term dues must be paid at the opening of each term as a condition of admission to classes.*

#### AUDITOR'S FEE

On presentation to the Bursar of the written consent of the head of a department, and on payment to the Bursar of an auditor's fee of one dollar, any person engaged in teaching is permitted to attend, in that department, any class or course (not to exceed three hours a week for one-half year) which is announced to be especially for teachers or those intending to teach.

**GRADUATION FEE.**—A fee of five dollars, to cover expense of graduation, diplomas, etc., is required of each person receiving one of the ordinary degrees from the University, and this fee must be paid before the degree is conferred. A like fee of ten dollars is charged to each person receiving one of the higher graduate degrees.

**FREE SCHOLARSHIP IN AGRICULTURE AND DOMESTIC SCIENCE, AND IN VETERINARY MEDICINE.**—A free scholarship, good for the two-year Courses, or for the First year of the Short Courses and the First year of the four-year Courses in the College of Agriculture and Domestic Science, is granted to one student annually from each county in Ohio. Each scholarship is valid two years from its grant, and covers the incidental fee and all laboratory fees (except gymnasium fee), but the person appointed to receive its benefits is subject to all the other conditions prescribed for admission to the Course. If in any county there is no applicant for the free scholarship in Agriculture, then a free scholarship, good for two years in the College of Veterinary Medicine, may be granted, subject to the same conditions as are prescribed for the free scholarship in Agriculture. The appointments are made by the county boards of agriculture, and are not transferable by the appointees. To learn whether the scholarship of a given county for the current year has been granted, inquiries should be addressed to the Secretary or President of



the County Agricultural Society. For further information concerning these scholarships, inquiries should be addressed to the Dean of the College of Agriculture and Domestic Science.

#### THE COLLEGE OF LAW

**INCIDENTAL FEE.**—An incidental fee of fifteen dollars per year is charged to regular undergraduate students.

Upon payment of the incidental fee, law students will be admitted to all the privileges of all the other Colleges of the University, upon the same terms as to admission, discipline, character of studies selected, etc., as other students in the University.

**TUITION FEE.**—In addition to the incidental fee named above, a tuition fee of twenty-two dollars and fifty cents per semester is charged to regular undergraduate students.

**GRADUATE FEE.**—A graduate fee of fifteen dollars per semester, payable in advance, is charged to all who take the full graduate work.

**DIPLOMA FEE.**—A fee of five dollars (to cover the expense of graduation, diplomas, certificates, etc.,) is charged to all who receive the diploma or certificate, and a fee of ten dollars is charged to those taking the degree of Master of Laws. These fees must be paid before the degrees are conferred or certificate delivered.

Special students are required to arrange their fees satisfactorily with the Dean or Secretary before being admitted.

#### OTHER EXPENSES

There are two dormitories on the University grounds for the use of students. Each occupant is charged by the University a rent of a dollar and a half a term.

The South Dormitory affords unfurnished rooms to such students as desire to board themselves, and thus to reduce their expenses to a minimum. The expense of living in this way is about two dollars per week. Applications for rooms should be made to the President of the University.

The North Dormitory will accommodate more than sixty students. Board, furnished rooms, fuel, light and washing are, at present prices, supplied for about three dollars and fifty cents a week. Students will be admitted on special recommendation to the President of the University.

Boarding clubs are also formed in the neighborhood of the University. Furnished rooms are rented at seventy-five cents to one dollar a week for each student, and the cost of table board is two dollars to three dollars a week.

Board with furnished rooms can be obtained in private families, within convenient distances of the University, at rates varying from three and a half dollars to five dollars a week. The ruling rate may be taken as four dollars.

The uniform with which the members of the battalion are required to provide themselves costs (without overcoat) about fourteen dollars. It is quiet in pattern, and is designed to be worn daily in place of civilian dress.

The expenses of a student in the University for a year may be estimated as follows, excluding clothing (except uniform) and traveling expenses:

	Low	Average	High
Incidental fees.....	\$18 00	\$18 00	\$18 00
Laboratory fees.....	15 00	20 00	54 00
Books and stationery.....	15 00	25 00	40 00
Room .....	4 50	37 00	75 00
Furniture .....	10 00	.....	.....
Board .....	70 00	110 00	150 00
Uniform .....	14 00	14 00	14 00
	<hr/>	<hr/>	<hr/>
	\$146 50	\$224 00	\$351 00



The second and third estimates for room include light, fuel and care. The third estimate is for a room occupied by a single student. The requirements for laboratory fees and books depend upon the course of study pursued.

### SELF-SUPPORT

There is a large amount of work upon the University farm which is assigned to students, preference being given to those who are studying Agriculture. *But the University cannot promise work to all applicants.* Many students find work in private families, in offices, and in various occupations, by means of which they defray at least a portion of their expenses. A person of ability and energy, who is master of a trade, or who can do good work of any kind, can generally find remunerative employment. It has seldom been known that any student of ordinary energy and industry was obliged to leave the University because of a lack of money for necessary expenses, *after having been say sixty days on the ground*—or long enough to inform himself as to the opportunities for securing employment.

Students should distinctly understand that where they attempt entire or partial self-support they should lengthen the term of study. An employment bureau is maintained at the University where the names of those seeking work and of those desiring workers are recorded. Students should report to the Executive Office from time to time as to their needs and their work. This will enable the authorities to be more helpful than otherwise would be possible.

### PRIZES

Through the generosity of Hon. William J. Bryan an annual prize of fifteen dollars is offered for the best essay on the principles underlying the form of government of the United States. Competition for this prize is open to all students of the University.

The Edward Thompson Company offer annually to the student writing the best essay on a legal theme selected by the Faculty of the College of Law, the second edition of the English and American Encyclopedia of Law, which includes about thirty volumes.

Other prizes are offered in special departments, for which see department circulars or the heads of the departments

### GENERAL RULES FOR STUDENTS

Rule 51. Each student shall at the beginning of the year give, in writing, his or her local address to the President, and shall promptly report all subsequent changes of address.

Rule 53. Smoking is prohibited in the halls, basements, and lecture rooms of the University buildings.

Rule 56. The rooms of University student organizations which are located in the University buildings shall not be used for purposes other than the usual exercises of such organization without the previously obtained consent of the General Faculty.

Rule 57. No arrangements or announcements shall be made by students for any public gathering or exercises in the University buildings without the previously obtained consent of the President.

Rule 66. All absences of individual students from the city, for any purpose, involving absence from college exercises, must be accounted for to the President; and in all possible cases permission must be previously obtained.

Rule 86. All students are required to register on the first day of each term or semester.

Rule 88 In the case of former students, if the incidental fee is not paid until the second day of the term or semester, one dollar will be added, and for each succeeding day of delinquency fifty cents will be added.

Rule 89. The assignment of work shall be made and recorded for each student, as shall be determined by the several faculties; but at the beginning of each term or semester, each student's card shall be signed by the Secretary of his College before presentation to the Bursar.



# THE COLLEGES





# THE COLLEGES

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## ADMISSION

The University is open on equal terms to both sexes.

The entrance examinations for 1901 will be held on Monday and Tuesday, June 17 and 18, and on Monday and Tuesday, September 16 and 17. A part of the examinations may be taken in June and the remainder in September. Conditions incurred at the June examinations must be removed at the September examinations.

Applicants for admission to the Colleges of Agriculture, of Arts, Philosophy, and Science, or of Pharmacy, must be at least sixteen years of age; for admission to the College of Engineering or of Veterinary Medicine must be at least seventeen years of age; for admission to the College of Law must be at least eighteen years of age. Each must be provided with credentials of scholarship from his last instructor or from the last institution with which he has been connected, and with a certificate of good moral character.

There are three modes of admission to the University:

1. Certificates of the preparatory departments of Colleges of approved standing and of Normal schools in Ohio are accepted, if found satisfactory, in lieu of examination for preparatory studies, under the following conditions:

Each certificate must contain a detailed statement of the studies pursued, the text books used, the amount of work done in each study, the amount of time devoted to it, the date of the examination, and the applicant's rank or standing in it. A copy of the course of study should accompany the certificate; and both should be sent to the University not later than the first of September. *The University cannot promise this recognition to those certificates presented during entrance week.*

Blank certificates will be furnished on application.

Applicants for admission who come from other Colleges or Universities are required to bring certificates of honorable dismissal.

Teachers' certificates (in force) will be accepted at their face value.

2. From time to time the University approves the courses of study in certain High Schools of the State; and the graduates of these High Schools are admitted on diplomas and certificates in accordance with the following rules:

Rule 17. Upon request from the Board of Education or the Superintendent of Public Schools of any town in Ohio for the inspection of the High School, the President shall appoint one or two members of the Faculty to visit such school who shall thoroughly inspect the school to ascertain whether its graduates may be reasonably supposed to possess the necessary qualifications for admission to the University. After such inspection, the inspector or inspectors shall report their conclusions in writing, with the reasons therefor, to the President who, with four professors to be annually elected by the Faculty, shall constitute a standing committee, to consider whether the graduates of the school should be admitted without examination, such privilege, if granted, not to extend beyond the period of three years without re-examination of the school. This committee shall from time to time report to the Faculty the names of such schools as in their judgment should be added to the list of accredited schools or should be withdrawn from that list.

Rule 94. Such diplomas and certificates shall be accepted in lieu of examination for preparatory studies only under the following conditions:

(a) The certificate must state in detail the studies pursued, the text-books used, the amount of work done in each study, the amount of time devoted to it, the date of the examination in it, and the rank or standing of the candidate in it.

(b) The certificate will be accepted for such studies only, or such part of each, as it shall show to have been satisfactorily accomplished.

(c) Every such certificate must be accompanied with a diploma showing that the candidate has completed the course of study in the school from which he comes. But the General Faculty may except from this condition schools whose work is known to be exceptionally good, provided that the candidate has attended the school two full years.

(d) In case the authorities of any high school, academy or normal school in Ohio desire to have a definite standing fixed for the admission of its graduates, a committee of the General Faculty will visit the school, and on the report of this committee a standing will be fixed for the graduates of the school. Such standing shall not be good, without re-examination, after three years.

(e) Whenever, after a sufficient trial, it becomes evident that the graduates of any school are not adequately prepared, the diploma and certificate of such school will no longer be accepted.

Rule 95. No applicants for admission to the University will be accepted who are deficient or conditioned in required entrance work representing in the aggregate more than one daily recitation for a year (two terms in the College of Engineering). In the case of candidates for admission to the College of Arts, Philosophy and Science, not more than two-thirds of this deficiency may be in any one subject; and in the case of candidates for admission to the College of Engineering, none of this deficiency may be in mathematics unless the candidate is over twenty-one years of age; in which case his deficiencies may include the language prescribed for entrance, in addition to the two terms mentioned above.

3. All other applicants are subject to examination on the groups of study mentioned below under the headings of those Colleges and Courses in the University which they desire to enter.

*Full equivalents for the text-books named will be accepted.*

## ADMISSION TO SPECIAL STUDIES

Rule 96. Students who desire to pursue special lines of work in the University, and do not desire to become candidates for degrees, will be admitted on the following conditions:

(a) The regular entrance requirements must be satisfied.

(b) But applicants who are not less than twenty-one years of age (eighteen years in the College of Engineering and of Pharmacy), after obtaining credit for the common English branches, may be excused from examination in such studies as may be deemed best by the Executive Committee of the appropriate college; provided, that if any such student afterwards becomes a candidate for a degree he shall pass the omitted examinations at least one year before the degree is conferred.

Rule 97. Students desiring to pursue special lines of work in the University shall, upon admission, lay before the Executive Committee of the appropriate college for approval or modification, a written statement of the end they have in view, the studies proposed for the attainment of that end, and the probable period of residence at the University. Such students shall be held as regularly to their accepted schemes of work as are regular undergraduates to their prescribed courses of study. Admission will be refused to, or withdrawn from, all of whose definiteness of purpose the Executive Committee fail to receive satisfactory evidence.

## ADMISSION TO ADVANCED STANDING

Rule 98. Applicants for advanced standing who do not come from some other university or college will be examined in the studies preparatory to admission to the appropriate college, and also in such undergraduate studies as they may wish to be credited with in advance. Applicants who have completed at least one years' work in an approved college, and who bring explicit and official certificates describing their courses of study and scholarship, and letters of honorable dismissal, will be admitted without examination, except such as may be necessary in order to determine what credit they are to receive for work done in the college from which they have come, and what courses of study they may with profit pursue in the University.

## GRADUATION

Rule 99. No one will be admitted to candidacy for a degree at any Commencement who has not done the last year of work required for the degree, in residence at this University, and no student will be registered in such candidacy later than the first day of October.

Rule 128. Except by unanimous consent of the Faculty, no candidate for graduation will be recommended for a degree whose record is not in all respects complete by the Friday evening previous to the Commencement Day at which he seeks the degree; and all students shall be notified of this rule at the beginning of their graduation year.

Rule 137. No candidate for graduation will be permitted to register for the second term or semester of his graduating year except upon presentation to the Bursar, of the President's certificate that his thesis subject has been announced and approved.

## XI. EXAMINATIONS AND STANDING

Rule 111. Students shall be regarded as strictly on probation until they have removed all deficiencies and conditions in entrance requirements. Such conditions shall be removed only upon examination by the proper officers of this institution.

Rule 112. Students who have any entrance conditions outstanding at the beginning of the third year of residence at the University will not be allowed to join their classes until such conditions have been removed.

Rule 116. The standing of students in each study shall be reported at the end of each term or semester, as "merit," "passed," "conditioned," or "failed." This standing shall be determined by the head of each department by such means and methods as he may choose, but no student shall be reported "failed" without having had the opportunity of a written examination.

Rule 117. The standings "merit" and "passed" indicate that the student has full credit for the term's or semester's work in the study in which this standing is obtained.

Rule 118. The report "credit" (K) shall be used only for work not done in regular class at the University.

Rule 119. The standing "conditioned" indicates that credit for the term's or semester's work in the study in which the condition was incurred is withheld. In the following term the student shall be given an opportunity to obtain credit by a special re-examination; or, if the study be a continuous one, the instructor in charge may, at his discretion, excuse the student from re-examination, and may allow him to obtain credit by pursuing the study successfully during the following term or semester. If the student thus excused from re-examination does not pass upon the work of the second term or semester, he shall be reported as "failed" in the work of both terms or semesters. Any condition that is not removed within one year from the beginning of the term or semester in which it was incurred shall lapse into a "failure."



Rule 120. The standing "failed" indicates that the student has obtained no credit whatever for the term's or semester's work in which the mark is given. The student must, at the first opportunity, repeat in class the study in which he has failed. But a student who has failed in an elective study may be excused from repeating such study by the Executive Committee of his college. In case of failure in any continuous study, the work of the term or semester in which the failure is incurred must be repeated in class before any subsequent term's or semester's work in that study can be commenced. Unexcused absence from any regular examination is construed as a failure therein.

Rule 121. Any student who fails at the end of any term or semester to secure full credit for two-thirds of his work shall be put on probation for the following term or semester with restricted work, and, if similarly delinquent in his studies at any time within the next ten academic months, shall thereby cease to be a member of the University.

Rule 122. If, for any cause, the preparation, progress or success of any student in the work assigned him be found unsatisfactory, the President may remove him from a class or dismiss him from the University.

### ADMISSION TO GRADUATE WORK

Graduates of this or other institutions may, on application to the Faculty, enter the University and pursue such lines of work as may be arranged or approved by the appropriate collegiate committee. Such graduate students are subject to all the ordinary regulations (as to fees, attendance, etc.), prescribed for undergraduates.

#### IN THE COLLEGES OF AGRICULTURE AND DOMESTIC SCIENCE, ENGINEERING, LAW AND PHARMACY

Masters degrees are conferred upon graduates in Agriculture, Horticulture and Forestry, Engineering, Law and Pharmacy at the end of not less than one year's residence, which shall be wholly devoted to the completion of an approved course of study in the University. Each is required in addition to present an acceptable thesis upon some subject connected with his course of study.

#### IN THE COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

1. The degree of Master of Arts will be conferred upon candidates holding the degree of B. A. or B. Ph. from this University or from other institutions making equivalent requirements for those degrees, upon the satisfactory completion, during not less than one year of residence (devoted exclusively to such work), of an approved course of study, covering a major subject and an allied minor subject. The major subject (two-thirds) shall be graduate work, taken in one of the departments of the Arts, Philosophy and Science College. The minor subject (one-third) may be in graduate work.

2. The degree of Master of Science will be conferred upon candidates holding the degree of B. Sc. from the General Science Course of this University or from institutions making equivalent requirements for this degree, and also upon graduates from the College of Engineering of this University, upon the terms specified for the degree of Master of Arts; except that the major subject must be taken in one of the Departments of Science in the Arts, Philosophy and Science College. The minor subject must be in an allied Science.

3. The degree of Master of Arts will be conferred upon candidates holding the degree of B. A. or B. Ph. and the degree of Master of Science upon candidates holding the degree of B. Sc. from this University or from other institu-

tions making equivalent requirements for these degrees, and the degree of Master of Science will be conferred on graduates from the College of Engineering of this University, on the completion, during not less than one year of residence of a course of study in one or more of the departments of the College of Arts, Philosophy and Science, not less than one-third of which course must be graduate work and not more than two-thirds may be such undergraduate work as is announced to be elective, such course to be subject to the approval of the Executive Committee of the Faculty of the College of Arts, Philosophy and Science. But a degree conferred under the provisions of this paragraph shall in no case be counted towards the degree of Doctor of Philosophy, or Doctor of Science.

4. With the consent of the Faculty the work of candidates for the Master's degree may be distributed over more than one year.

5. Each candidate for a Master's degree must also prepare and submit a thesis, and after its acceptance, be examined upon the work assigned him.

6. The degree of Ph. D. or of D. Sc. will be conferred upon holders of the appropriate baccalaureate degree from this University, or from other institutions making equivalent requirements for the first degree, upon the satisfactory completion of three years of resident graduate work in the Arts, Philosophy and Science College, including thesis and examinations. Holders of the degree of Master of Arts or Master of Science from this University, under the conditions prescribed in paragraph one or two, or from other institutions making equivalent requirements for these degrees, may receive the Doctor's degree on the satisfactory completion of two years of resident graduate work after obtaining the Master's degree. On approval of the Faculty, the work of the first year or of the first two years, of the three, may be done at another University which offers equivalent graduate work.

7. Candidates for the degree of Doctor of Science must take their work wholly in Science.

8. With the consent of the Faculty the work required of candidates for Doctor's degrees may be distributed over more than three years.

### FELLOWSHIPS

To encourage graduates of this University, and of other similar and approved institutions in this state, to continue their work and to complete the courses necessary to second (and other) degrees, the University authorities have established fellowships in several departments. These demand about one-half of the time of the fellow for laboratory instruction or other similar assistance—as far as possible, along the line of his graduate study. The remainder of his time is given to graduate work. The fellowships pay from \$250 to \$300 for the University year.

Rule 151. So far as student work is concerned, Fellows shall be subject to the regulations of the various colleges in regard to graduate students.

Mr. Emerson McMillin has established two fellowships: one in Astronomy, \$300 for the academic year; and one in Economics, \$250 for the academic year. No service is required in these fellowships, and Fellows are expected to give their entire time to graduate work.

## THE COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE

The College of Agriculture and Domestic Science offers six distinct courses of study:

1. *A four years' Course in Agriculture, leading to the degree of Bachelor of Science in Agriculture.*
2. *A four years' Course in Horticulture and Forestry leading to the degree of Bachelor of Science in Horticulture and Forestry.*
3. *A two years' Course in Agriculture and Horticulture.*
4. *A winter term's Course in Dairying.*
5. *A four years' Course in Domestic Science, leading to the degree of Bachelor of Science in Domestic Science.*
6. *A two years' Course in Domestic Science.*

### FOR AMDISSION

The following are the requirements for admission to the four-year courses:

1. *Arithmetic, Descriptive and Physical Geography, English Grammar, and United States History.* *Physical Geography, one unit; United States History, one unit.*

2. *English Composition and English Classics.*—Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of several brief essays, of which one will be upon a subject drawn from the applicant's observation or experience, and the others upon topics requiring a knowledge of the following Books, or equivalents: Shakespeare's *Merchant of Venice*, *Julius Caesar* and *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Conciliation with the Colonies*; Macaulay's *Essays on Milton and Addison*; The Sir Roger de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*. English Composition and Rhetoric, two units; English Classics, one unit.

To meet the English requirement the schools should provide courses in composition-practice and courses in English classics extending side by side through the preparatory years.

In the courses in composition, pupils should be afforded regular and abundant practice in preparing narrative, descriptive, expository and argumentative themes, and should be familiarized with those principles of Rhetoric which are most helpful in composition, such as the principles of sentence-structure, outlining, paragraphing, and choice of words. Scott and Denney's *Composition-Rhetoric* is recommended as a guide. The study of specimens of bad English from a text-book is not recommended; in order to insure accuracy, a considerable amount of the written work of the pupils should be corrected by the teacher and revised and rewritten by the pupils themselves. Some of the composition-work may be based upon the reading prescribed above, but much of it should be based upon the observation and experience of the pupils.

In the course in English classics, pupils should read the prescribed books with sufficient care to become familiar with the plot, incidents, and characters of all of them and should also learn something of their authors and of their places in literary history. A few of these books, or portions of all of them, should be examined closely with reference to form, structure, method, language, and leading characteristics of style. The voluntary outside reading of additional books should be encouraged by the teacher. In connection with all of the reading it is recommended that the memorizing of notable passages of prose and poetry be required.

3. *Algebra*—Venable's *Easy Algebra*, complete. Two units.

4. *Botany*—Gray or Kellerman's *Elementary Botany and Spring Flora*, or equivalent. One unit.



7. *Latin*—Pronunciation (the Roman method): Grammar (an exact knowledge of the inflections is essential); Cæsar, the first four books of the *De Bello Gallico*. Three units.

Or *French*—The whole subject of French Grammar. Applicants will be expected to read at sight easy French and to translate correctly into French simple English sentences. Two years ought to be given to this study, the first year being spent mainly on the Grammar with easy reading; the second devoted to reading good Modern French, with grammatical analysis and exercises in writing. The texts read should be chiefly narrative and conversational prose; one or more prose comedies of the nineteenth (*not* the seventeenth) century should be included. Three units.

Or *German*—Joynes-Meissner's or Thomas's Grammar is recommended. The essentials in these grammars should have been mastered thoroughly, i. e., declensions of nouns and adjectives, pronouns, comparison of adjectives, prepositions, regular and irregular verbs and essentials of syntax. Three units.

The following books or their equivalents must have been read (not less than 600 pages.)

Joynes's or Whitney's Reader, Hillern, Höher als die Kirche, Riehl, Der Fluch der Schönheit, Freytag, Die Verlorne Handschrift, Gerstäcker Irrfahrten.

Until the year 1902, the *German* or *French* required for admission may be begun at the University, but without University credits. For the year 1902 and thereafter, the full requirements as above stated will be held to.

5. *Plane Geometry*—White, Venable, Wentworth, or Wells. One unit.

6. *Physics*—Gage, Carhart and Chute, Avery, or Appleton. Two units.

7. Either of the following:

*Civil Government*—Fisk or Thorpe preferred. One unit.

*History*—Myers's *General History*. One unit.

A student may enter with conditions amounting to three units,—not counting French or German, which may be begun at the University. In connection with each subject a valuation has been given to aid the student in determining whether he is eligible for admission.

#### TO SPECIAL STUDIES

See page 60.

#### TO ADVANCED STANDING

See page 61.

#### TO GRADUATE WORK

See page 62.



## OUTLINE OF THE COURSE IN AGRICULTURE

Note—The figure in parenthesis following the name of each study indicates the number of the study in its department. (See Departments of the University.)

### FIRST YEAR

#### REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1) Principles.	5.	Agr'l Chemistry (8) Organic.	5.	Agr'l Chemistry (9) Applications.	5.
Botany (6) Physiological.	5.	Botany (7) Physiological and Economic.	5.	Botany (8) Economic Botany and Vegetable Pathology.	5.
Drawing (10)	2.	Rhetoric (1) and (21) English Composition.	2½.	Rhetoric (1) and (21) English Composition.	2½.
Rhetoric (1) and (21) English Composition.	2½.	Shopwork (1)	3.	Zoology (1) Vertebrate.	3.
Zoology (1) Invertebrate.	3.	Zoology (1) Invertebrate.	3.	Cadet Service (men). Hygiene and Physical Training (women).	
Cadet Service (men). Hygiene and Physical Training (women).					

### SECOND YEAR

#### REQUIRED

Agriculture (8) Breeds of Live Stock.	4.	Agriculture (9) Principles of Breeding.	4.	Agriculture (10) Stock Feeding.	4.
Agr'l Chemistry (4) Laboratory.	5.	Agr'l Chemistry (4) Laboratory.	5.	Agr'l Chemistry (4) Laboratory.	5.
Horticulture (1) Elements.	4.	Shopwork (2)	3.	Horticulture (3) Plant Propagation.	4.
Physiology (1) Anatomy.	3.	Physiology (1) Physiology.	3.	Physiology (1) Physiology.	3.
Zoology (4) Economic Entomology.	2.	Zoology (4) Economic Entomology.	2.	Zoology (4) Economic Entomology.	2.
Cadet Service (men). Hygiene and Physical Training (women).		Cadet Service (men). Hygiene and Physical Training (women).		Cadet Service (men). Hygiene and Physical Training (women).	

### THIRD YEAR

#### REQUIRED

Agriculture (11) Farm Equipment.	4.	Agriculture (12) Soils.	4.	Agriculture (13) Crops.	4.
†French (1) Elementary, or †German (1) Elementary.	4.	French (1) Elementary, or German (1) Elementary.	4.	Drawing (16) French (1) Elementary, or German (1) Elementary.	3. 4.
Geology (2) General.	5.	Geology (5) Economic.	3.	Astronomy (3) Meteorology.	2.
Veterin'y Medicine (28) Anatomy.	5.	Veterin'y Medicine (29) General Pathology.	5.	Veterin'y Medicine (30) Special Pathology.	5.

\* A rule of the Board of Trustees requires each male student (except students in the College of Law) to render two years' cadet service as a condition of graduation. Students physically incapacitated for cadet service will be assigned an equivalent in special gymnasium work. The President has authority to excuse from cadet service under certain conditions.

Young women are required to carry Hygiene and Physical Training in place of cadet service.

† Where credit is received for Elementary French or German, French (2) 4 hours or German (4) 4 hours is required.

## FOURTH YEAR

## REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agriculture (14)	4.	Agriculture (15)	4.	Agriculture (16)	4.
Animal Mechanics.		Dairy.		Rural Economics.	
History (1)	4.	History (1)	2.	Economics (1)	4.
U. S. Political.		U. S. Political.		Political Economy.	
		Economics (1)	2.		
		Political Economy.			
Thesis	2.	Thesis	2.	Thesis	2.

## ELECTIVE

Eight hours a week through the year, including two for thesis chosen from any of the courses given in any College of the University upon which the student is qualified to enter; except in the College of Law.

## FOURTH YEAR

(Beginning September, 1902.)

## REQUIRED

History (1)	4.	History (1)	2.	Economics (1)	4.
U. S. Political.		U. S. Political.		Political Economy.	
		Economics (1)	2.		
		Political Economy.			
Thesis	2.	Thesis	2.	Thesis	2.

Eight hours per week through the year; chosen from any of the following courses:

Agriculture (14)	4.	Agriculture (18)	4.	Agriculture (16)	4.
Animal Mechanics		Zootechny.		Rural Economics.	
Agriculture (19)	4.	Agriculture (20)	4.	Agriculture (21)	4.
Rural Engineering.		Agronomy.		Agronomy.	
Agriculture (22)	4.	Agriculture (15)	4.	Agriculture (25)	4.
Dairying.		Dairying.		Dairying.	
*Agr'l Chemistry (6)	4.	*Agr'l Chemistry (6)	4.	*Agr'l Chemistry (6)	4.
Laboratory.		Laboratory.		Laboratory.	
Veterinary Medicine (24)	3.	Veterinary Medicine (18)	3.	Veterinary Medicine (18)	3.

## ELECTIVE

Four hours a week through the year chosen from any of the courses given in any of the Colleges of the University upon which the student is qualified to enter, except the College of Law.

## THESIS

At the beginning of the fourth year, each student in this Course will take up as thesis work some special line of inquiry within the field of the degree sought. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the fifteenth day of December of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

\*In case a student intends to elect Agricultural Chemistry (6) 4, and Agricultural (19) (20), and (21) 4, he may elect Agricultural Chemistry 5 hours in place of Veterinary Medicine (28), (29), and (30) 5.

## OUTLINE OF THE COURSE IN HORTICULTURE AND FORESTRY

### FIRST YEAR

#### REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1) Principles.	5.	Agr'l Chemistry (8) Organic.	5.	Agr'l Chemistry (9) Applications.	5.
Botany (6) Physiological.	5.	Botany (7) Physiological, Economic.	5.	Botany (8) Economic Botany. Vegetable Pathology.	5.
Drawing (10)	2.				
Rhetoric (1) and (21) English Composition.	2½.	Rhetoric (1) and (21) English Composition. Shopwork (1)	2½. 3.	Rhetoric (1) and (21) English Composition.	2½.
Zoology (1) Invertebrate.	3.	Zoology (1) Invertebrate.	3.	Zoology (1) Vertebrate.	3.
Cadet Service (men). Hygiene and Physical Training (women).		Cadet Service (men). Hygiene and Physical Training (women).		Cadet Service (men). Hygiene and Physical Training (women).	

### SECOND YEAR

#### REQUIRED

Agr'l Chemistry (4) Laboratory.	5.	Agr'l Chemistry (4) Laboratory.	5.	Agr'l Chemistry (4) Laboratory.	5.
*French (1) Elementary,	4.	French (1) Elementary,	4.	French (1) Elementary,	4.
or		or		or	
*German (1) Elementary.		German (1) Elementary.		German (1) Elementary.	
Horticulture (1) Elements.	4.	Shopwork (2)	3.	Horticultural (3) Plant Propagation.	4.
Physiology (1) Anatomy.	3.	Physiology (1) Physiology.	3.	Physiology (1) Physiology.	3.
Zoology (4) Economic Entomology.	2.	Zoology (4) Economic Entomology.	2.	Zoology (4) Economic Entomology.	2.
Cadet Service (men). Hygiene and Physical Training (women).		Cadet Service (men). Hygiene and Physical Training (women).		Cadet Service (men). Hygiene and Physical Training (women).	

### THIRD YEAR

#### REQUIRED

Agriculture (11) Farm Equipment.	4.	Agriculture (12) Soils.	4.	Agriculture (13) Crops.	4.
				Astronomy (3)	2.
				Meteorology.	
French (2)	4.	French (2) or	4.	Drawing (16)	3.
German (4)		German (4)		French (2) or	4.
Geology (2) General.	5.	Geology (5) Economic	3.	German (4)	
Horticulture (5) Varieties of Fruit.	4.	Horticulture (6) Principles of Fruit Culture.	4.	Zoology (4) Economic Entomology.	3.
				Horticulture (7) Small Fruits and Spraying.	4.

\*Where credit is received for Elementary French or German, French (2) 4 hours or German (4) 4 hours is required.

## FOURTH YEAR

## REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Horticulture (8)	2.	Horticulture (9)	2.	Horticulture (10)	2.
Elements of Floriculture.		Commercial Floriculture		Home Floriculture.	
Horticulture (11)	2.	Horticulture (12)	2.	Horticulture (13)	2.
Arboriculture.		Forestry and Sylvicul- ture.		Landscape Gardening.	
History (1)	4.	History (1)	2.	Economics (1)	4.
U. S. Political.		U. S. Political.		U. S. Political.	
		Economics (1)	2.		
		Political Economy.			
Thesis	2	Thesis	2.	Thesis	2.

## ELECTIVE

Eight hours a week through the year chosen from any of the courses given in any College of the University upon which the student is qualified to enter; except in the College of Law.

## THESIS

At the beginning of the fourth year, each student in this Course will take up as thesis work some special line of inquiry within the field of the degree sought. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the fifteenth day of December of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

## OUTLINE OF THE COURSE IN DOMESTIC SCIENCE

## FIRST YEAR

## REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1)	5.	Agr'l Chemistry (8)	5.	Agr'l Chemistry (9)	5.
Principles.		Organic.		Applications.	
Botany (6)	5.	Botany (7)	5.	Botany (8)	5.
Physiological.		Physiological and Economic.		Economic Botany. Vegetable Pathology.	
Drawing (1)	2.	Drawing (1)	2.	Drawing (1)	2.
Rhetoric (1) and (21)	2½.	Rhetoric (1) and (21)	2½.	Rhetoric (1) and (21)	2½.
English Composition.		English Composition.		English Composition.	
Zoology (1)	3.	Zoology (1)	3.	Zoology (1)	3.
Invertebrate.		Invertebrate.		Invertebrate.	
Hygiene and Physical Training.		Hygiene and Physical Training.		Hygiene and Physical Training.	



## SECOND YEAR

		REQUIRED			
FIRST TERM	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Agr'l Chemistry (4) Laboratory.*	5.	Agr'l Chemistry (4) Laboratory.*	5.	Physiology (3) Chemical Physiology.	3.
Domestic Economy (1)	4.	Domestic Economy (2)	4.	Physiology (10)	2.
Drawing (10)	2.	Drawing (15)	2.	Domestic Economy (3)	4.
Mechanical.		Architectural.		Drawing (15)	2.
†French (1) Elementary,	} 4.	French (1) Elementary,	} 4.	House Designing.	
or		or		French (1) Elementary,	} 4.
†German (1) Elementary.		German (1) Elementary.		or	
Physiology (1)	3.	Physiology (1)	3.	German (1) Elementary.	
Hygiene and Physical Training.		Hygiene and Physical Training.		Physiology (1)	3.
				Hygiene and Physical Training.	

\*Special laboratory work will be provided for students in this course, where necessary.

†Where credit is received for elementary French or German, French (2) 4 hours or German (1) 4 hours is required.

## THIRD YEAR

		REQUIRED			
Domestic Economy (4)	4.	Domestic Economy (5)	4.	Domestic Economy (6)	4.
French (2)	} 4.	French (2)	} 4.	French (2)	} 4.
or		or		or	
German (4)		German (4)		German (4)	
History (1)	4.	History (1)	2.	Economics (1)	4.
U. S. Political.		U. S. Political.		Political Economy.	
Education (1)	3.	Economics (1)	2.	Education (1)	3.
		Political Economy.			
		Education (1)	3.		
English Literature (1)	2.	English Literature (1)	2.	English Literature (1)	2.

## FOURTH YEAR

		REQUIRED			
Domestic Economy (7)	4.	Domestic Economy (8)	4.	Domestic Economy (9)	4.
Horticulture (9)	2.	Horticulture (10)	2.	Horticulture (11)	2.
Elements of Floriculture.		Window Gardening.		Home Floriculture.	
Thesis	2.	Thesis	2.	Thesis	2.

## ELECTIVE

Eight hours a week through the year chosen from any of the courses given in any College of the University upon which the student is qualified to enter; except in the College of Law.

## THESIS

As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of this study must lie within the field of the degree sought. The subject must be announced to the President of the University (dependent upon the approval of the head of the Department), not later than December 15th of the fourth year; and the completed thesis must be presented in duplicate, on standard paper of certain size and quality, typewritten, bound, and titled, not later than the second Saturday before Commencement Day.

## THE SHORT COURSES

A two-year course in Agriculture and a two-year course in Domestic Economy have been provided for those who have neither the time nor the means to pursue four-year courses. These short courses also enable those who lack the preparation for entering the four-year courses to obtain such preparation. The studies of the first year of the short courses, it will be noticed, nearly prepare the student to enter the first year of the four-year courses. The student having had chemistry in the first year of a short course can finish his preparation for either of the four-year courses during the first year of the latter course, in place of the chemistry required.

At the end of the first year of the Short Course in Agriculture, for example, the student has three strings to his bow. He may finish the second year of the short course by taking the more technical studies from the four-year courses, if lack of time or means demand it; or he may enter either the four-year course in Agriculture or the four-year course in Horticulture and Forestry. The same is practically true of the Short Course in Domestic Science.

The Course in Dairying is designed especially for those who are desirous of mastering the art of butter and cheese making or who wish to become fitted for the position of manager or superintendent of a creamery or cheese factory. In this course the greater part of the time is given to the laboratory or dairy room practice. This consists in the testing of milk as to purity and contents of butter fat; the use and care of centrifugal separators and other dairy devices; the making of butter and cheese by the most improved methods; in short, all the essential operations of the creamery, factory and home dairy management are repeatedly performed under the guidance and direction of competent instructors. The laboratory or dairy room practice is supplemented, however, by lectures and recitations upon the subjects of breeding, feeding, selecting and judging of dairy stock; the disease of the cow; the chemistry of milk; the effect of bacteria and other agents upon milk and its products; the care of boilers and engines and similar subjects.

The Course in Dairying begins the first Thursday in January; all other courses begin on Tuesday following the sixteenth of September. Students wishing to take the Course in Dairying should send for special pamphlet entitled "The Dairy School."

These short courses are not to be compared in breadth and thoroughness with the full courses of the University and all students are urged to take or to continue into the full four-year courses wherever possible.

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ADMISSION TO THE SHORT COURSE IN AGRICULTURE AND THE COURSE IN DAIRYING

Applicants must be at least sixteen years of age, and unless over twenty-one, must pass an examination in *Arithmetic*, *Geography*, *Grammar* and *United States History*, or bring high school or other certificates for those branches. The requirements for English Grammar in the Short Courses may be met by writing a business letter or theme on some practical subject. Applicants who are over twenty-one are admitted without examination.

## ADMISSION TO THE SHORT COURSE IN DOMESTIC SCIENCE

The following are the requirements:

1. *Arithmetic*, *Descriptive and Physical Geography*, *English Grammar* and *United States History*.

2. *English*—(a) Composition and Rhetoric; (b) English Classics.
  3. *Algebra*.
  4. *Plane Geometry*.
  7. Either of the following:  
*Civil Government*.  
*General History*.
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## OUTLINE OF THE SHORT COURSE IN AGRICULTURE

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### FIRST YEAR

		REQUIRED			
FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1)	5.	Agr'l Chemistry (8)	5.	Agr'l Chemistry (9)	5.
Principles.		Organic.		Applications.	
Mathematics (1)	5.	Mathematics (3)	5.	Botany (1)	5.
Algebra.		Geometry.		Elementary.	
Physics (1)	5.	Physics (1)	5.	Geology (1)	5.
Elementary.		Elementary.		Physiography.	
Drawing (10)	2.	Shopwork (1)	3.	Physiology (2)	3.
Mechanical.				General.	
Cadet Service.		Cadet Service.		Cadet Service.	

### SECOND YEAR

Not less than fifteen hours per week through the year; chosen from any of the following courses subject to conditions named under "Departments of Instruction."

Agriculture (8)	4.	Agriculture (9)	4.	Agriculture (10)	4.
Breeds of Live Stock.		Principles of Breeding.		Stock Feeding.	
Agriculture (11)	4.	Agriculture (12)	4.	Agriculture (13)	4.
Farm Equipment.		Soils.		Crops.	
Agriculture (17)	3.				
Milk Sanitation.					
Botany (6)	5.	Agriculture (15)	4.	Zoology (7)	3.
Physiological.		Dairy.		Entomology.	
Horticulture (1)	4.	Horticulture (2)	4.	Horticulture (3)	4.
Elements.		Greenhouse Construction.		Plant Propagation.	
		Shopwork (2)	3.	Veterinary Medicine (30)	5.
Veterinary Medicine (28)	5.	Veterinary Medicine (29)	5.	Special Pathology.	
Anatomy.		General Pathology.			
Horticulture (5)	4.	Horticulture (6)	4.	Horticulture (7)	4.
Varieties of Fruit.		Principles of Fruit Culture.		Small Fruits and Spraying.	
		Physiology (6)	2.		
Cadet Service.		Cadet Service.		Cadet Service.	

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### OUTLINE OF THE COURSE IN DAIRYING

Agriculture (5). Dairy Farming.—Three hours each week. Lectures and recitations on breeds, breeding, feeding, selection and judging of dairy stock, equipment and management of dairy farms.

Agriculture (6). Butter and Cheese-Making.—Four half days each week. Laboratory practice in running separator, churning, working butter, making cheese, milk testing, etc.

Agriculture (7). Butter and Cheese-making.—Two hours each week. Lectures and recitations and laboratory work.  
 Agricultural Chemistry (7). Milk Chemistry and Milk Testing.—Four hours each week. Lectures and laboratory practice.  
 Physiology (6). Bacteria in their relation to Milk, Butter and Cheese.—Two hours each week. Lectures and laboratory practice.  
 Veterinary Medicine (17). Diseases of the Cow. Three hours each week.  
 Mechanical Engineering (26). Steam Machinery. One hour each week.

## OUTLINE OF THE SHORT COURSE IN DOMESTIC SCIENCE

### FIRST YEAR

		REQUIRED			
FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1) Principles.	5.	Agr'l Chemistry (8) Organic.	5.	Agr'l Chemistry (9) Applications.	5.
Physics (1) Elementary.	5.	Physics (1) Elementary.	5.	Botany (1) Elementary.	5.
French (1) or German (1)	} 4.	French (1) or German (1)	} 4.	French (1) or German (1)	} 4.
Rhetoric (1) and (21) English Composition.		Rhetoric (1) and (21) English Composition.		Rhetoric (1) and (21) English Composition.	
Hygiene and Physical Training.	2½.	Hygiene and Physical Training.	2½.	Hygiene and Physical Training.	2½.

### SECOND YEAR

		REQUIRED			
Domestic Economy (1)	4.	Domestic Economy (2)	4.	Domestic Economy (3)	4.
Domestic Economy (4)	4.	Domestic Economy (5)	4.	Domestic Economy (6)	4.
Hygiene and Physical Training.		Hygiene and Physical Training.		Hygiene and Physical Training.	

### ELECTIVE

Not less than seven hours per week chosen from the following courses; subject to the conditions named under "Departments of Instruction":

Botany (6) Physiological.	5.	Botany (7) Physiological and Economic.	5.	Botany (8) Economic Botany, Vegetable Pathology.	5.
Drawing (1)	2.	Drawing (1)	2.	Drawing (1)	2.
Education (1)	3.	Education (1)	3.	Education (1)	3.
English Literature (1)	2.	English Literature (1)	2.	English Literature (1)	2.
Horticulture (9) Elements of Floriculture.	2.	Horticulture (10) Window Gardening	2.	Horticulture (11) Home Floriculture.	2.
Zoology (1) Invertebrate.	3.	Zoology (1) Invertebrate.	3.	Zoology (1) Vertebrate.	3.



## THE COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

The College of Arts, Philosophy and Science offers seven courses of study:

1. The course in Arts, leading to the degree of Bachelor of Arts.
2. The Latin course in Philosophy, leading to the degree of Bachelor of Philosophy.
3. The Modern Language course in Philosophy, leading to the degree of Bachelor of Philosophy.
4. The English course in Philosophy, leading to the degree of Bachelor of Philosophy.
5. The course in Commerce and Administration, leading to the degree of Bachelor of Philosophy.
6. The course in Education, leading to the degree of Bachelor of Arts or Bachelor of Philosophy.
7. The course in General Science, leading to the degree of Bachelor of Science.

### FOR ADMISSION

The following are the subjects which may be presented for admission to this College of the University; not all of these subjects are required for any one Course; the specific requirements and options under each Course are given below.

1. *Arithmetic, Descriptive and Physical Geography, English Grammar, and United States History.* Physical Geography, one unit; United States History, one unit.

2. *English Composition and Rhetoric, and English Classics.*—Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of several brief essays, of which one will be upon a subject drawn from the applicant's observation or experience, and the others upon topics requiring a knowledge of the following books, or equivalents: Shakespeare's *Merchant of Venice*, *Julius Caesar*, and *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Conciliation with the Colonies*; Macaulay's *Essays on Milton and Addison*; The Sir Roger de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*. English Composition and Rhetoric, two units; English classics, one unit.

To meet the English requirement the schools should provide courses in composition-practice and courses in English classics extending side by side through the preparatory years.

In the courses in composition, pupils should be afforded regular and abundant practice in preparing narrative, descriptive, expository and argumentative themes, and should be familiarized with those principles of Rhetoric which are most helpful in composition, such as the principles of sentence-structure, outlining, paragraphing, and choice of words. Scott and Denney's *Composition-Rhetoric* is recommended as a guide. The study of specimens of bad English from a text-book is not recommended; in order to insure accuracy, a considerable amount of the written work of the pupils should be corrected by the teacher and revised and rewritten by the pupils themselves. Some of the composition-work may be based upon the reading prescribed above, but much of it should be based upon the observation and experience of the pupils.

In the course in English classics, pupils should read the prescribed books with sufficient care to become familiar with the plot, incidents, and characters of all of them and should also learn something of their authors and of their places in literary history. A few of these books, or portions of all of them, should be examined closely with reference to form, structure, method, language, and leading characteristics of style. The voluntary outside reading of additional books should be encouraged by the teacher. In connection with all of the reading it is recommended that the memorizing of notable passages of prose and poetry be required.

3. *Algebra*—Taylor's Academic or equivalent. Two units.  
 4. *Botany*—Kellerman's Elementary Botany and Spring Flora or equivalent. One unit.

5. *Civil Government*—Fiske or Thorpe preferred. One unit.  
 6. *Geometry, Plane and Solid*—Venable, White, Wentworth or Wells. Plane Geometry, one unit; Solid Geometry, one unit. The deficiency in Mathematics cannot exceed one unit.

7. *Greek*—Grammar (Goodwin's preferred) and Prose Composition; or the first 100 lessons of White's Beginner's Greek Book. Reading: The first three books of Xenophon's *Anabasis*. At least two years should be devoted to this work. Three units.

8. *History*—Either Myers's General History (or equivalent); or, if the teacher's training and the school library will warrant, Greek and Roman History on the topical method. One unit.

9. *Latin*—Pronunciation (the Roman method); Grammar (an exact knowledge of the inflections is essential), one and one-half units; Cæsar, the first four books of the *De Bello Gallico*, one and one-half units; Cicero, six orations, including *Pro Lege Manilia*, one unit; Vergil, the first six books of the *Æneid*, with Prosody, one and one-half units; Prose Composition, Daniell or Collar or Jones or Dodge and Tuttle, entire, one-half unit. In all, six units. The deficiency in Latin cannot exceed one unit.

10. *Physics*—Carhart and Chute, Gage, Avery or Appleton. Two units.

11. *French*—Applicants should be able to pronounce French accurately, to read at sight easy French prose, to put into French simple English sentences taken from the language of everyday life, or based upon a portion of the French text read, and to answer questions on the rudiments of the grammar as defined below.

Two years should be given to this preparation.

During the first year the work should comprise: (1) Careful drill in pronunciation; (2) the rudiments of grammar, including the inflection of the regular and the more common irregular verbs, the plural of nouns, the inflection of adjectives, participles and pronouns; the use of personal pronouns, common adverbs, prepositions and conjunctions; the order of words in the sentence, and the elementary rules of syntax; (3) abundant easy exercises, designed not only to fix in the memory the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (4) the reading of from 100 to 175 duodecimo pages of graduated texts, with constant practice in translating into French easy variations of the sentences read (the teacher giving the English), and in reproducing from memory sentences previously read; (5) writing French from dictation.

During the second year the work should comprise: (1) The reading of from 250 to 400 pages of easy modern (nineteenth century) prose in the form of stories, plays or historical or biographical sketches; (2) constant practice, as in the previous year, in translating into French easy variations upon the texts read; (3) frequent abstracts, sometimes oral and sometimes written, of portions of the text already read; (4) writing French from dictation; (5) continued drill upon the rudiments of grammar, with constant application in the construction of sentences; (6) mastery of the forms and use of pronouns, pronominal adjectives, of all but the rare irregular verb forms, and of the simpler uses of the conditional and subjunctive. Three units.

12. *German*.—

(a) The Aim of the Instruction.

At the end of the elementary course in German the pupil should be able to read at sight, and to translate, if called upon, by way of proving his ability to read, a passage of very easy dialogue or narrative prose, help being given upon unusual

words and constructions; to put into German short English sentences taken from the language of every-day life or based upon the text given for translation, and to answer questions upon the rudiments of grammar as defined below.

(b) The Work to be Done.

During the first year the work should comprise: (1) Careful drill upon pronunciations; (2) the memorizing and frequent repetition of easy colloquial sentences; (3) drill upon the rudiments of grammar, that is, upon the inflection of the articles, of such nouns as belong to the language of every-day life, of adjectives, pronouns, weak verbs, and the more usual strong verbs, also upon the use of the more common prepositions, the simpler uses of the model auxiliaries, and the elementary rules of syntax and word-order; (4) abundant easy exercises designed not only to fix in mind the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (5) the reading of from 75 to 100 pages of graduated texts from a reader, with constant practice in translating into German easy variations upon sentences selected from the reading lesson (the teacher giving the English), and in the reproduction from memory of sentences previously read.

During the second year the work should comprise: (1) The reading of from 150 to 200 pages of literature in the form of easy stories and plays; (2) accompanying practice, as before, in the translation into German of easy variations upon the matter read, and also in the off-hand reproduction, sometimes orally and sometimes in writing, of the substance of short and easy selected passages; (3) continued drill upon the rudiments of the grammar, directed to the ends of enabling the pupil, first, to use his knowledge with facility in the formation of sentences, and, secondly, to state his knowledge correctly in the technical language of grammar. Three units.

13. *Chemistry*—Williams or Remsen. Two units.

14. (a) *English Literature*—Pancoast's Introduction to English Literature and an acquaintance with representative works in each period, one unit; or (b) *English History*—Montgomery. One unit.

15. *Physiology*—Martin (briefer course). One unit.

Until 1902 a student may enter with conditions amounting to three units, not counting Greek, German or French. The condition in Latin or Mathematics may not amount to more than one unit. In connection with each subject a valuation has been given to aid the student in determining whether he is eligible.

#### TO THE COURSE IN ARTS

Requirements for admission are subjects 1 to 10, inclusive, as given above.

#### TO THE LATIN COURSE IN PHILOSOPHY

Requirements for admission are subjects 1 to 6, inclusive, 8, 9, 10, and one of the following: 7, 11, or 12, as given above.

#### TO THE MODERN LANGUAGE COURSE IN PHILOSOPHY

Requirements for admission are subjects 1 to 6, inclusive, 8, 10, and either 7 and 9, or two of the following: 9, 11, 12, as given above.

#### TO THE ENGLISH COURSE IN PHILOSOPHY

Requirements for admission are subjects 1 to 6, inclusive, 8, 10, and either 7 and 9, or two of the following: 9, 11, 12; but in place of 11 or 12 the applicant may offer subjects 13, 14 and 15, as given above.



## TO THE COURSE IN COMMERCE AND ADMINISTRATION

Requirements for admission are subjects 1 to 6, inclusive, 8, 10, and either 7 and 9, or two of the following: 9, 11, 12, as given above.

## TO THE COURSE IN EDUCATION

The requirements for admission are the same as for any one of the five preceding courses and the first and second years of any one of those courses.

## TO THE COURSE IN GENERAL SCIENCE

Requirements for admission are subjects 1 to 6, inclusive, 8, 10, and either 7 and 9, or two of the following: 9, 11, 12, as given above.

## TO SPECIAL STUDIES

See page 60.

## TO ADVANCED STANDING

See page 61.

## TO GRADUATE WORK

See page 62.

## COURSE PREPARATORY TO LAW AND JOURNALISM

In revising the courses of the College of Arts, Philosophy and Science the work heretofore offered as a separate discipline, in the Course Preparatory to Law and Journalism has been incorporated, as required and elective work, in the English Course in Philosophy. Much of this work is now open also to students enrolled in the other courses of this College; none of it has been abandoned or withdrawn.

Students preparing for admission to the College of Law (as candidates for a degree in law) will find suitable and sufficient preparation in the first two years of work prescribed in any one of the four-year courses of the College of Arts, Philosophy and Science.

Students preparing for Journalism will find in the English Course in Philosophy, as now revised, a more thorough preparation than the three-year special course preparatory to Law and Journalism could afford. The requirements for admission remain unchanged. Students preparing for journalism are advised to include among their elective studies as much work in English, Economics, History, Political Science and Elementary Law as their course will permit.

## COURSE PREPARATORY TO THE STUDY OF MEDICINE

The three-year course preparatory to the study of Medicine has been discontinued owing to the fact that the completion of this course would not, under the present requirements of the Association of Medical Colleges, enable the student to gain credit for a year's time in the medical course. While it is deemed wiser for the present not to offer a special four-year course leading to a degree, it is desired to point out that a student having a medical career in view when entering here, or determining on such a career within the first year or two of his university course, may make such elections in any of the general courses as to gain a full year's credit, both in work and time allowance in a medical college.

While studies differ in different medical curricula it may be noted that Chemistry, Zoology, Comparative Anatomy, Embryology, Histology, Physiology, Bacteriology and Materia Medica, as taught here will be accepted in the medical



schools and election of these in their proper sequence will enable the student to qualify himself very thoroughly for his medical course.

Students having medicine in view will do well to consult with the professors having these studies in charge, with reference to the best sequence of election and those having a particular medical college in view can make their selections with special reference to its requirements. Students already entered in the Course Preparatory to the Study of Medicine may complete the work as arranged at the time of their entrance.

## OUTLINE OF THE COURSE IN ARTS

### FIRST YEAR

NOTE—The figure in parenthesis following the name of each study indicates the number of that study in its department. (See Departments of the University.)

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Greek (7)	4.	Greek (8)	4.	Greek (9)	4.
Xenophon's <i>Hellenica</i> .		Herodotus.		Homer's <i>Odyssey</i> .	
Latin (1)	4.	Latin (2)	4.	Latin (3)	4.
Livy or Cicero.		Terence; Plautus.		Cicero or Livy.	
Mathematics (21)	3.	Mathematics (22)	3.	Mathematics (23)	3.
College Algebra.		Plane Trigonometry.		Analytics & Calculus.	
Rhetoric (1) and (21)	3.	Rhetoric (1) and (21)	3.	Rhetoric (1) and (21)	3.
Paragraph Writing;		Paragraph Writing;		Paragraph Writing;	
Oral Discourse.		Oral Discourse.		Oral Discourse.	

And one of the following sciences (the choice being for the year):

Botany (21)	} 3.	Botany (22)	} 3.	Botany (23)	} 3.
Chemistry (1)		Chemistry (1)		Chemistry (1)	
Physics (11) or (2)		Physics (11) or (2)		Physics (11) or (2)	
Zoology (1)		Zoology (1)		Zoology (1)	
Cadet Service (Men).		Cadet Service (Men).		Cadet Service (Men).	
Hygiene and Physical		Hygiene and Physical		Hygiene and Physical	
Training (Women).		Training (Women).		Training (Women).	

### SECOND YEAR

Greek (10)	4.	Greek (11)	4.	Greek (12)	4.
Lysias.		Plato.		Homer's <i>Iliad</i> .	
Latin (4)	4.	Latin (5)	4.	Latin (6)	4.
Catullus, Tacitus.		Horace, Pliny.		Propertius, Tibullus.	
American History (1a)	} 4.	American History (1a)	} 2.	Economics (1b)	} 4.
U. S. Political,		U. S. Political,		Elementary,	
or		or		or	
Economics (1a)		Economics (1b)		American History (1b)	
Elementary.		Elementary.		U. S. Political.	
		or			
		American History (1b)			
		U. S. Political.			
English Literature (1)	2.	English Literature (1)	2.	English Literature (1)	2.
Introductory.		Introductory.		Introductory.	
Rhetoric (2)	2.	Rhetoric (3)	2.	Rhetoric (3)	2.
Expository.		Brief-making.		Argumentation.	
Cadet Service (Men).		Cadet Service (Men).		Cadet Service (Men).	
Hygiene and Physical		Hygiene and Physical		Hygiene and Physical	
Training (Women).		Training (Women).		Training (Women).	

## THIRD YEAR

FIRST TERM.	hours Credit	SECOND TERM.	hours Credit	THIRD TERM.	hours Credit
Philosophy (15)	4.	Philosophy (16)	4.	Philosophy (17)	4.
Psychology.		Logic.		Ethics.	
*Major Study	4.	Major Study	4.	Major Study	4.

\*Major Study. Not later than the beginning of the third year each student shall elect a major study in one department, or with the consent of the professors in charge, in two allied departments in the College of Arts, Philosophy and Science. To the major study he shall devote not less than four nor more than ten hours a week during the third year, and not less than five nor more than ten hours a week during the fourth year. With the approval of the proper authority, the major study may be entered upon in the second year; an equivalent amount of the work of that year, not in the line of the major study, being postponed to the third year; but the amount so postponed shall not exceed four hours a week; in this case the elective work of the third year will be reduced by a like amount.

## ELECTIVE

Eight hours a week through the year—chosen from the courses in the College of Arts, Philosophy and Science; *except* that, not earlier than the third year, studies equivalent to five hours a week for one year may be chosen from any course or courses taught in the University; provided that the studies chosen are such as the student is qualified to pursue.

## FOURTH YEAR

Major Study	5.	Major Study	5.	Major Study	5.
Electives	10.	Electives	10.	Electives	10.

## THESIS

At the beginning of the fourth year, each student in this Course will take up as thesis work some special line of inquiry within the field of his major study, subject to the approval of the professor in charge of the department, and must devote to it two hours per week, or its equivalent, independently of his other work. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the fifteenth day of December of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

## OUTLINE OF THE LATIN COURSE IN PHILOSOPHY

## FIRST YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
French (1)	} 4.	French (1)	} 4.	French (1)	} 4.
Elementary, or German (1)		Elementary. or German (1)		Elementary, or German (1)	
Elementary.		Elementary.		Elementary.	
Latin (1)	4.	Latin (2)	4.	Latin (3)	4.
Livy or Cicero.		Terence; Plautus.		Cicero or Livy.	
Mathematics (21)	3.	Mathematics (22)	3.	Mathematics (23)	3.
College Algebra.		Plane Trigonometry.		Analytics and Calculus.	
Rhetoric (1) and (21)	3.	Rhetoric (1) and (21)	3.	Rhetoric (1) and (21)	3.
Paragraph Writing;		Paragraph Writing;		Paragraph Writing;	
Oral Discourse.		Oral Discourse.		Oral Discourse.	

And one of the following sciences (the choice being for the year):

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Botany (21)	} 3.	Botany (22)	} 3.	Botany (23)	} 3.
Chemistry (1)		Chemistry (1)		Chemistry (1)	
Physics (11) or (2)		Physics (11) or (2)		Physics (11) or (2)	
Zoology (1)		Zoology (1)		Zoology (1)	
Cadet Service (Men).		Cadet Service (Men).		Cadet Service (Men).	
Hygiene and Physical Training (Women).		Hygiene and Physical Training (Women).		Hygiene and Physical Training (Women).	

## SECOND YEAR

French (2)	} 4.	French (2)	} 4.	French (2)	} 4.
Modern Literature, or German (4) Intermediate		Modern Literature, or German (4) Intermediate		Modern Literature, or German (4) Intermediate	
Latin (4)	4.	Latin (5)	4.	Latin (6)	4.
Catullus, Tacitus.		Horace, Pliny.		Propertius, Tibullus.	
American History (1a) U. S. Political, or Economics (1a) Elementary.	} 4.	American History (1a) U. S. Political, or Economics (1a) Elementary.	} 2.	Economics (1b) Elementary, or American History (1b) U. S. Political.	} 4.
		Economics (1b) Elementary, or American History (1b) U. S. Political.		American History (1b) U. S. Political.	
		English Literature (1) Introductory.		English Literature (1) Introductory.	
		Rhetoric (3) Brief-making.		Rhetoric (3) Argumentation.	
English Literature (1) Introductory.	2.	English Literature (1) Introductory.	2.	English Literature (1) Introductory.	2.
Rhetoric (2) Expository.	2.	Rhetoric (3) Brief-making.	2.	Rhetoric (3) Argumentation.	2.
Cadet Service (Men).		Cadet Service (Men).		Cadet Service (Men).	
Hygiene and Physical Training (Women).		Hygiene and Physical Training (Women).		Hygiene and Physical Training (Women).	

## THIRD YEAR

Philosophy (15)	4.	Philosophy (16)	4.	Philosophy (17)	4.
Psychology.		Logic.		Ethics.	
*Major Study	4.	Major Study	4.	Major Study	4.

\*See footnote to Course in Arts.

## ELECTIVE

Eight hours a week through the year—chosen from the courses in the College of Arts, Philosophy and Science, *except* that, not earlier than the third year, studies equivalent to five hours a week for one year may be chosen from any course or courses taught in the University; provided that the studies chosen are such that the student is qualified to pursue.

## FOURTH YEAR

Major Study	5.	Major Study	5.	Electives	10.
Electives	10.	Electives	10.	Electives	10.

## THESIS

At the beginning of the fourth year, each student in this course will take up as thesis work some special line of inquiry within the field of his major study, subject to the approval of the professor in charge of the department, and must devote to it two hours per week, or its equivalent, independently of his other work. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the fifteenth day of December of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

## OUTLINE OF MODERN LANGUAGE COURSE IN PHILOSOPHY

## FIRST YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
French (1) or (2) 1st or 2nd year.	4.	French (1) or (2) 1st or 2nd year.	4.	French (1) or (2) 1st or 2nd year.	4.
German (1) or (4) 1st or 2nd year.	4.	German (1) or (4) 1st or 2nd year.	4.	German (1) or (4) 1st or 2nd year.	4.
Mathematics (21) Algebra.	3.	Mathematics (22) Plane Trigonometry.	3.	Mathematics (23) Analytics and Calculus.	3.
Rhetoric (1) and (21) Paragraph Writing; Oral Discourse.	3.	Rhetoric (1) and (21) Paragraph Writing; Oral Discourse.	3.	Rhetoric (1) and (21) Paragraph Writing; Oral Discourse.	3.

And one of the following sciences (the choice being for the year):

Botany (21)	} 3.	Botany (22)	} 3.	Botany (23)	} 3.
Chemistry (1)		Chemistry (1)		Chemistry (1)	
Physics (11) or (2)		Physics (11) or (2)		Physics (11) or (2)	
Zoology (1)		Zoology (1)		Zoology (1)	
Cadet Service (Men).		Cadet Service (Men).		Cadet Service (Men).	
Hygiene and Physical Training (Women).		Hygiene and Physical Training (Women).		Hygiene and Physical Training (Women).	

## SECOND YEAR

French 2nd or 3rd year.	4.	French 2nd or 3rd year.	4.	French 2nd or 3rd year.	4.
German 2nd or 3rd year.	4.	German 2nd or 3rd year.	4.	German 2nd or 3rd year.	4.
American History (1a) U. S. Political, or Economics (1a) Elementary.	} 4.	American History (1a) U. S. Political, or Economics (1a) Elementary.	} 2.	Economics (1b) Elementary or American History (1b) U. S. Political.	} 4.
		Economics (1b) Elementary, or American History (1b) U. S. Political.			
Rhetoric (2) Expository Writing.	2.	Rhetoric (3) Brief-Making.	2.	Rhetoric (3) Argumentation.	2.
English Literature (1) Introduction.	2.	English Literature (1) Introduction.	2.	English Literature (1) Introduction.	2.
Cadet Service (Men).		Cadet Service (Men).		Cadet Service (Men).	
Hygiene and Physical Training (Women).		Hygiene and Physical Training (Women).		Hygiene and Physical Training (Women).	

## THIRD YEAR

Philosophy (15) Psychology.	4.	Philosophy (16) Logic.	4.	Philosophy (17) Ethics.	4.
*Major Study	4.	Major Study.	4.	Major Study.	4.

## ELECTIVE

Eight hours a week through the year—chosen from the courses in the College of Arts, Philosophy and Science, *except* that, not earlier than the third year, studies equivalent to five hours a week for one year may be chosen from any course or courses taught in the University; provided that the studies chosen are such as the student is qualified to pursue.

\*See footnote, Course in Arts.



## FOURTH YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Major Study	5.	Major Study	5.	Major Study	5.
Electives	10.	Electives	10.	Electives	10.

## THESIS

At the beginning of the fourth year, each student in this Course will take up as thesis work some special line of inquiry within the field of his major study, subject to the approval of the professor in charge of the department, and must devote to it two hours per week, or its equivalent, independently of his other work. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the fifteenth day of December of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

## OUTLINE OF THE ENGLISH COURSE IN PHILOSOPHY

## FIRST YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Mathematics (21)	3.	Mathematics (22)	3.	Mathematics (23)	3.
Algebra.		Plane Trigonometry.		Analytics and Calculus.	
Rhetoric (1) and (21)	3	Rhetoric (1) and (21)	3	Rhetoric (1) and (21)	3
Paragraph Writing; Oral Discourse.		Paragraph Writing; Oral Discourse.		Paragraph Writing; Oral Discourse.	
Rhetoric (15)	2.	Rhetoric (15)	2.	Rhetoric (15)	2.
English Language.		English Language.		English Language.	
French (1) or (2)	} 4.	French (1) or (2)	} 4.	French (1) or (2)	} 4.
1st or 2nd Year,		1st or 2nd Year,		1st or 2nd Year,	
or		or		or	
German (1) or (4)	} 4.	German (1) or (4)	} 4.	German (1) or (4)	} 4.
1st or 2nd Year.		1st or 2nd Year.		1st or 2nd Year.	
European History (1)	3.	European History (2)	3.	European History (3)	3.
Early Middle Ages.		Renaissance.		Modern Europe.	

And one of the following sciences (the choice being for the year) :

Botany (21)	} 3.	Botany (22)	} 3.	Botany (23)	} 3.
Chemistry (1)		Chemistry (1)		Chemistry (1)	
Physics (11) or (2)		Physics (11) or (2)		Physics (11) or (3)	
Zoology (1)		Zoology (1)		Zoology (1)	
Cadet Service (Men).		Cadet Service (Men).		Cadet Service (Men).	
Hygiene and Physical		Hygiene and Physical		Hygiene and Physical	
Training (Women).		Training (Women).		Training (Women).	

## SECOND YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Rhetoric (2)	2.	Rhetoric (3)	2.	Rhetoric (3)	2.
Expository Writing.		Brief-Making.		Argumentation.	
Rhetoric (16)	2.	Rhetoric (16)	2.	Rhetoric (16)	2.
Old English		Old English		Old English	
English Literature (1)	2.	English Literature (1)	2.	English Literature (1)	2.
Introduction.		Introduction.		Introduction.	
American History (1a)	} 4.	American History (1a)	} 2.		
U. S. Political,		U. S. Political,			
or		or			
Economics (1a)		Economics (1a)			
Elementary.		Elementary.			
		Economics (1b)	} 2.	Economics (1b)	} 4.
		Elementary		Elementary,	
		or		or	
		American History (1b)		American History (1b)	
		U. S. Political.		U. S. Political.	
French	} 4.	French	} 4.	French	} 4.
2nd or 3rd Year,		2nd or 3rd Year,		2nd or 3rd Year,	
or		or		or	
German		German		German	
2nd or 3rd Year.		2nd or 3rd Year.		2nd or 3rd Year.	
Philosophy (18)	3.	Philosophy (18)	3.	Philosophy (19)	3.
Psychology.		Psychology.		Logic.	
Cadet Service (Men).		Cadet Service (Men).		Cadet Service (Men).	
Hygiene and Physical		Hygiene and Physical		Hygiene and Physical	
Training (Women).		Training (Women).		Training (Women).	

## THIRD YEAR

Philosophy (20)	3.	Philosophy (21)	3.	Philosophy (21)	3.
Ethics.		History of Modern Phi-		History of Modern Phi-	
		losophy.		losophy.	
*Major Study	4.	Major Study.	4.	Major Study	4.

## ELECTIVE

Eight hours a week through the year—chosen from the courses in the College of Arts, Philosophy and Science, *except* that, not earlier than the third year, studies equivalent to five hours a week for one year may be chosen from any course or courses taught in the University; provided that the studies chosen are such as the student is qualified to pursue.

## FOURTH YEAR

Major Study	5.	Major Study	5.	Major Study	5.
Electives	10.	Electives	10.	Electives	10.

## THESIS

At the beginning of the fourth year, each student in this Course will take up as thesis work some special line of inquiry within the field of his major study, subject to the approval of the professor in charge of the department, and must devote to it two hours per week, or its equivalent, independently of his other work. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the fifteenth day of December of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

\*See footnote, Course in Arts.

# OUTLINE OF THE COURSE IN COMMERCE AND ADMINISTRATION

## FIRST YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Mathematics (21)	3.	Mathematics (22)	3.	Mathematics (23)	3.
Algebra.		Plane Trigonometry.		Analytics and Calculus.	
Rhetoric (1) and (21)	3.	Rhetoric (1) and (21)	3.	Rhetoric (1) and (21)	3.
Paragraph Writing; Oral Discourse.		Paragraph Writing; Oral Discourse.		Paragraph Writing; Oral Discourse.	
French (1) or (2)	4.	French (1) or (2)	4.	French (1) or (2)	4.
1st or 2nd Year.		1st or 2nd Year.		1st or 2nd Year.	
German (1) or (4)	4.	German (1) or (4)	4.	German (1) or (4)	4.
1st or 2nd Year.		1st or 2nd Year.		1st or 2nd Year.	

And one of the following sciences (the choice being for the year):

Botany (21)	}	3.	Botany (22)	}	3.	Botany (23)	}	3.
Chemistry (1)			Chemistry (1)			Chemistry (1)		
Physics (11) or (2)			Physics (11) or (2)			Physics (11) or (2)		
Zoology (1)			Zoology (1)			Zoology (1)		
Cadet Service (Men).			Cadet Service (Men).			Cadet Service (Men).		
Hygiene and Physical Training (Women).			Hygiene and Physical Training (Women).			Hygiene and Physical Training (Women).		

## SECOND YEAR

Rhetoric (2)	2.	Rhetoric (3)	2.	Rhetoric (3)	2.
Expository Writing.		Brief-making.		Argumentation.	
English Literature (1)	2.	English Literature (1)	2.	English Literature (1)	2.
Introduction.		Introduction.		Introduction.	
American History (1a)	}	American History (1a)	}	American History (1a)	}
U. S. Political,		U. S. Political,		U. S. Political,	
or		or		or	
Economics (1a)		Economics (1a)		Economics (1b)	
Elementary.		Elementary.		Elementary,	
				or	
				American History (1b)	
				U. S. Political.	
French	}	French	}	French	}
2d or 3d Year,		2d or 3d Year,		2d or 3d Year,	
or		or		or	
German		German		German	
2d or 3d Year		2d or 3d Year		2d or 3d Year	
European History (1)	3.	European History (2)	3.	European History (3)	3.
Early Middle Ages.		Renaissance.		Modern Europe.	
Cadet Service (Men).		Cadet Service (Men).		Cadet Service (Men).	
Hygiene and Physical Training (Women).		Hygiene and Physical Training (Women).		Hygiene and Physical Training (Women).	

## THIRD YEAR

Philosophy (15)	4.	Philosophy (16)	4.	Philosophy (17)	4.
Psychology.		Logic.		Ethics.	
*Law	5.	Law	5.	Law	5.
Elementary.		Elementary and Contracts.		Contracts.	
*Major Study.	4.	Major Study	4.	Major Study	4.

\*In place of Elementary Law, five hours, Commercial Law five hours may be substituted. Also in place of Contracts, any two of the following may be substituted: Corporations (Private), Insurance, Agency, Sales, Mortgages.

† See footnote Course in Arts.

From the courses mentioned in the departments below, selection may be made to make up the required number of hours. Not less than sixteen nor more than eighteen hours a week are permitted and no substitutions or options further than those indicated below.

American History and Political Science	2 or 3
Economics and Sociology	2 or 3
European History	2 or 3
German	2 or 3
Rhetoric	2 or 3
Romance Language	2 or 3

## FOURTH YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Major Study	5.	Major Study	5.	Major Study	5.
(as in 3rd Year).		(as in 3rd Year).		(as in 3rd Year).	
Electives (as in 3rd Year).	10.	Electives (as in 3rd Year).	10.	Electives (as in 3rd Year).	10.

## THESIS

At the beginning of the fourth year, each student in this Course will take up as thesis work some special line of inquiry within the field of his major study, subject to the approval of the professor in charge of the department, and must devote to it two hours per week, or its equivalent, independently of his other work. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the fifteenth day of December of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

## OUTLINE OF THE COURSE IN EDUCATION.

The studies for the first two years will be the same as for any one of the five preceding courses.

## THIRD YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Philosophy (15)	4.	Philosophy (16)	4.	Philosophy (17)	4.
Psychology.		Logic.		Ethics.	
Education (3)	4.	Education (3)	4.	Education (3)	4.
*Major Study.	4.	Major Study	4.	Major Study	4.

## ELECTIVE

Four hours a week through the year—chosen from the courses in the College of Arts, Philosophy and Science, *except* that, not earlier than the third year, studies equivalent to five hours a week for one year may be chosen from any course or courses taught in the University; provided that the studies chosen are such as the student is qualified to pursue.

## FOURTH YEAR

Education (5)	4.	Education (5)	4.	Education (5)	4.
Education Electives	2.	Education Electives	2.	Education Electives	2.
Major Study	5.	Major Study	5.	Major Study	5.
Electives	4.	Electives	4.	Electives	4.

## THESIS

At the beginning of the Fourth year, each student in this Course will take up as thesis work some special line of inquiry within the field of his major study, subject to the approval of the professor in charge of the department, and must devote to it two hours per week, or its equivalent, independently of his other

\* See footnote Course in Arts.



work. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the fifteenth day of December of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

## OUTLINE OF THE COURSE IN GENERAL SCIENCE

### FIRST YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
*Mathematics (21) & (24)	4.	*Mathematics.		*Mathematics.	
Algebra, or		Trigonometry (22) and (24)	4.	Analytics and Calculus (23) and (24)	4.
Trigonometry (14)	5.	or		or	
		Algebra (16)	3.	Analytics (17)	5.
Rhetoric (1) and (21)	3.	Trigonometry (15)	2.		
Paragraph Writing; Oral Discourse.		Rhetoric (1) and (21)	3.	Rhetoric (1) and (21)	3.
*Botany (21)	3.	Paragraph Writing; Oral Discourse.		Paragraph Writing; Oral Discourse.	
Ecology		*Botany (22)	3.	*Botany (23)	3.
or		Morphology and Physiology, or		Systematic,	
*Zoology (1)	4.	*Zoology (1)	4.	or	4.
Comparative		Comparative		*Zoology (1)	
French (1) or (2)	4.	French (1) or (2)	4.	Comparative	4.
1st or 2nd Year,		1st or 2nd Year,		French (1) or (2)	
or		or		1st or 2nd Year,	
German (1) or (4)	3.	German (1) or (4)	3.	or	3.
1st or 2nd Year		1st or 2nd Year		German (1) or (4)	
Chemistry (1)		Chemistry (1)		1st or 2nd Year	
Elementary (Inorganic).		Elementary (Inorganic).		Chemistry (1)	3.
Cadet Service (Men).		Cadet Service (Men).		Elementary (Inorganic).	
Hygiene and Physical Training (Women).		Hygiene and Physical Training (Women).		Cadet Service (Men).	
				Hygiene and Physical Training (Women).	

### SECOND YEAR

†French 2d or 3d Year, or	4.	†French 2d or 3d Year, or	4.	†French 2d or 3d Year, or	4.
German 2d or 3d Year		German 2d or 3d Year		German 2d or 3d Year	
Physics (2)	3.	Physics (2)	3.	Physics (2)	3.
Mechanics and Heat.		Electricity and Magnetism.		Sound and Light.	
Physiology (1)	3.	Physiology (1)	3.	Physiology (1)	3.
Human Anatomy and Physiology.		Human Anatomy and Physiology.		Human Anatomy and Physiology.	
American History (1a)	4.	American History (1a)	2.	American History (1a)	2.
U. S. Political, or		U. S. Political, or		U. S. Political, or	
Economics (1a)	4.	Economics (1a)	2.	Economics (1b)	4.
Elementary.		Elementary.		Elementary,	
		or		or	
		American History (1b)	2.	American History (1b)	4.
		U. S. Political		U. S. Political	
Cadet Service (Men).		Cadet Service (Men).		Cadet Service (Men).	
Hygiene and Physical Training (Women).		Hygiene and Physical Training (Women).		Hygiene and Physical Training (Women).	

\*Students taking both Botany (21) (22) and Zoology (1) will take Mathematics (21) (22) (23) as required Freshman Mathematics.

†It is desired that the student on completing this course, shall possess a good reading knowledge of both French and German. Therefore, the student entering on both French and German will take both languages in the University, each for one year. He who enters on one modern language will continue that language one year in case he cannot read easy prose at sight, and take the other language for one year. In case a reading knowledge of one Modern Language is possessed, the student will take the other language two years.

Together with one of the following subjects, to be continued through the year: (a) Botany (24), three hours credit through the year, or (25), five hours credit through the year. (b) Chemistry (12) and (17), from three to five hours credit through the year. (c) Mathematics (18), (19) and (20), five hours credit through the year. (d) Zoology (2), from three to five hours credit through the year.

## THIRD YEAR

Philosophy (18)	3.	Philosophy (18)	3.	Philosophy (19)	3.
Psychology.		Psychology.		Logic.	
Astronomy (1)	2.	Astronomy (1)	2.	Astronomy (1)	2.
General.		General.		General.	
Major Study.	4.	Major Study.	4.	Major Study.	4.
Electives	4.	Electives	4.	Electives	4.
and one of the following:					
‡Geology (11)	3.	Geology (12)	3.	Geology (13)	3.
Inorganic.		Historical.		Field.	
§Astronomy (2)	3.	Astronomy (2)	3.	Astronomy (2)	3.
Practical.		Least Squares.		Practical.	

Elective: Four hours a week through the year—chosen from the courses in the College of Arts, Philosophy and Science, *except* that not earlier than the third year:

First: Studies equivalent to five hours a week for one year may be chosen from any courses taught in the University; provided, that the studies chosen are such as the student is qualified to pursue.

Second: Additional studies equivalent to five hours a week for one year may be chosen in the College of Engineering.

## FOURTH YEAR

Major Study	5.	Major Study	5.	Major Study	5.
Electives	10.	Electives	10.	Electives	10.

## THESIS

As a requisite for graduation each student must present an acceptable thesis embodying the results of a special research. The line of research must lie within the field of the major study, and is subject to the approval of the professor or professors having the major study in charge; and the student shall enter on this work not later than the beginning of the fourth year, and shall devote to it not less than two hours a week, or its equivalent, for one year, independently of his other work. The subject of thesis, together with a written approval of it by the professor or professors directing the investigation, must be submitted to the President of the University, not later than the fifteenth day of December of the fourth year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day. In case two or more students are pursuing the same major study, a joint research and thesis may be made.

||Major Study. Not later than the beginning of the Third Year each student in this course shall elect a Major Study in Mathematics or in a Science in which Laboratory instruction is given. This Major Study shall be in one department, or with the consent of the professors in charge, in two allied departments in this college. To the Major Study the student shall devote not less than five hours nor more than ten hours a week during the Fourth Year.

‡Students who elect Astronomy (2) through the year must take Geology (11), (12) and (13) through the year in the Fourth Year, if not taken earlier in the course.

§Students who elect Mathematics as a Major Study must take Astronomy (2) through the year; all others take Geology (11), (12) and (13) through the year.

## THE COLLEGE OF ENGINEERING

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The College of Engineering offers twelve courses of study:

1. A four years' course in Architecture and Drawing, leading to the degree of Civil Engineer in Architecture (C. E. in Architecture). Established in 1900.
2. A four years' course in Ceramics, leading to the degree of Engineer of Mines in Ceramics (E. M. in Ceramics). Established in 1896.
3. A four years' course in Chemistry, leading to the degree of Bachelor of Science in Chemistry (B. Sc.). Established in 1897.
4. A four years' course in Civil Engineering, leading to the degree of Civil Engineer (C. E.). Established in 1873.
5. A four year's course in Electrical Engineering, leading to the degree of Mechanical Engineer in Electrical Engineering (M. E. in E. E.). Established in 1889.
6. A four years' course in Industrial Arts, leading to the degree of Bachelor of Science in Industrial Arts (B. Sc.). Established in 1893.
7. A four years' course in Manual Training, leading to the degree of Bachelor of Science in Industrial Arts (B. Sc.). Established in 1893.
8. A four years' course in Mechanical Engineering, leading to the degree of Mechanical Engineer (M. E.). Established in 1879.
9. A four years' course in Mining Engineering, leading to the degree of Engineer of Mines (E. M.). Established in 1878.
10. A two years' course in Clayworking. Established in 1894.
11. A two years' course in Industrial Arts and Shopwork. Established in 1896.
12. A two years' course in Mining. Established in 1887.

### FOR ADMISSION

The following are the requirements for admission to the four-year Courses:

1. *Arithmetic, Descriptive and Physical Geography, English Grammar, and United States History.* Physical Geography, one unit; United States History, one unit.
2. *English Composition and Rhetoric, and English Classics.*—Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of several brief essays, of which one will be upon a subject drawn from the applicant's observation or experience, and the others upon topics requiring a knowledge of the following books, or equivalents: Shakespeare's *Merchant of Venice*, *Julius Caesar*, and *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Conciliation with the Colonies*; Macaulay's *Essays on Milton and Addison*; The Sir Roger de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*; English Composition and Rhetoric, two units; English Classics, one unit.

To meet the English requirement the schools should provide courses in composition-practice and courses in English classics extending side by side through the preparatory years.

In the courses in composition, pupils should be afforded regular and abundant practice in preparing narrative, descriptive, expository and argumentative themes, and should be familiarized with those principles of Rhetoric which are most helpful in composition, such as the principles of sentence-structure, outlining, paragraphing, and choice of words. Scott and Denney's *Composition-Rhetoric* is recommended as a guide. The study of specimens of bad English from a text-book is not recommended; in order to insure accuracy, a considerable amount of the written work of the pupils should be corrected by the teacher and revised and rewritten by the pupils themselves. Some of the composition-work may be based upon the



reading prescribed above, but much of it should be based upon the observation and experience of the pupils.

In the course in English classics, pupils should read the prescribed books with sufficient care to become familiar with the plot, incidents, and characters of all of them and should also learn something of their authors and of their places in literary history. A few of these books, or portions of all of them, should be examined closely with reference to form, structure, method, language, and leading characteristics of style. The voluntary outside reading of additional books should be encouraged by the teacher. In connection with all of the reading it is recommended that the memorizing of notable passages of prose and poetry be required.

3. *Algebra*—Taylor's Academic, or Wentworth's, White's, or Wells's Elements. No deficiencies are permitted in Algebra.

4. *Civil Government*—Fiske or Thorpe preferred. One unit.

5. *Geometry, Plane and Solid*—Venable, Wentworth, White, or Wells. No deficiencies are permitted in Geometry.

6. *History*—Myers's General History. One unit.

7. *Latin*—Pronunciation (the Roman method); Grammar (an exact knowledge of the inflections is essential); Cæsar, the first four books of the *De Bello Gallico*. Three units.

Or *French*—The whole subject of French Grammar. Applicants will be expected to read at sight easy French and to translate correctly into French simple English sentences. Two years ought to be given to this study, the first year being spent mainly on the Grammar with easy reading; the second devoted to reading good modern French, with grammatical analysis and exercises in writing. The text read should be chiefly narrative and conversational prose; one or more prose comedies of the nineteenth (not the seventeenth) century should be included. Three units.

Or *German*—Joynes-Meissner's or Thomas's Grammar is recommended. The essentials in these grammars should have been mastered thoroughly, *i. e.*, declensions of nouns and adjectives, pronouns, comparison of adjectives, prepositions, regular and irregular verbs and essentials of syntax.

The following books or their equivalents must have been read (not less than 600 pages): Joynes's or Whitney's Reader, Hillern's *Höher als die Kirche*, Riehl's *Der Fluch der Schönheit*, Freytag's *Die Verlorne Handschrift*, Gerstäcker *Irrfahrten*. Three units.

8. *Physics*—Gage, Carhart and Chute, Avery or Appleton, complete. Two units.

Until 1902 a student may enter with conditions amounting to two units, not counting Latin, German or French. After 1902 no student, unless over twenty-one years of age, may enter with conditions amounting to more than two units. In connection with each subject a valuation has been given to aid the student in determining whether he is eligible.

#### TO SPECIAL STUDIES

See page 60.

#### TO ADVANCED STANDING

See page 61.

#### TO GRADUATE WORK

See page 62.



## OUTLINE OF THE COURSE IN ARCHITECTURE AND DRAWING

NOTE—The figure in parenthesis following the name of each study indicates the number of the study in its department. (See Departments of the University.)

### FIRST YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Mathematics (14)	5.	Mathematics (15, 16)	5.	Mathematics (17)	5.
Plane Trigonometry.		Trigonomet. and Algebra.		Plane Analytics.	
Chemistry (7)	5.	Chemistry (7)	5.	Chemistry (12)	4.
Inorganic.		Inorganic.		Qualitative Analysis.	
Modern Language	4.	Modern Language	4.	Modern Language	4.
French, German or Spanish.		French, German or Spanish.		French, German or Spanish.	
Rhetoric (1) and (21)	2½.	Rhetoric (1) and (21)	2½.	Rhetoric (1) and (21)	2½.
Composition.		Composition.		Composition.	
Drawing (1)	2.	Drawing (1)	2.	Drawing (2)	3.
Freehand.		Freehand.		Lettering.	
Drill and Gymnasium.		Drill and Gymnasium.		Drill.	

### SECOND YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Drawing (3)	3.	Drawing (3)	5.	Drawing (3)	5.
Projections.		Descriptive Geom.		Shades, Shadows.	
Mathematics (18)	5.	Mathematics (19)	5.	Mathematics (20)	5.
Space Analytics.		Calculus.		Calculus.	
Physics (2)	3.	Physics (2)	3.	Physics (2)	3.
Mechanics. Heat.		Electricity, Magnetism.		Light, Sound.	
Architecture (9)	3.	Architecture (10)	3.	Architecture (11)	3.
History of Architecture.		History of Architecture.		History of Architecture.	
Architecture (12)	2.	Architecture (13)	2.	Architecture (14)	2.
Detail Drawing.		Detail Drawing.		Detail Drawing.	
Drawing (14)	2.				
Pen Drawing.					
Military Drill.		Drill and Gymnasium.		Military Drill.	

### THIRD YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Mathematics (6)	5.	Mathematics (6)	5.	Mathematics (6)	5.
Mechanics.		Mechanics.		Strength Materials.	
Architecture (15)	4.	Architecture (16)	2.	Architecture (17)	4.
Designing.		Designing.		Designing.	
Drawing (7)	2.	Drawing (12)	2.	Drawing (12)	2.
Photography.		Clay Modeling.		Clay Modeling.	
Electrical Engineering (6)	2.	Elec. Eng. (6 and 7)	4.		
Lectures.		Lectures and Lab.			
Architecture (5)	3.	Civil Eng. (6)	4.	Civil Eng. (19)	5.
Decorations, etc.		Stereotomy.		Trusses.	
Rhetoric (2)	2.	Rhetoric (3)	2.	Rhetoric (3)	2.
Expository Writing.		Brief-making.		Argumentation.	

### FOURTH YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Architecture (18)	4.	Architecture (4)	2.	Architecture (6)	4.
Designing.		Specifications.		Estimates and Supt.	
Civil Eng. (15)	5.	Architecture (7)	5.	Architecture (19)	4.
Masonry.		Heating, Vent., etc.		Designing.	
Mech. Eng. (23)	4.	Architecture (8)	5.	Architecture (20)	5.
Materials of Const.		Designing.		Thesis.	
Geology (2)	5.	Geology (6)	3.	Civil Eng. (21)	3.
General.		Economic.		Surveying.	
		Drawing (18)	3.	Drawing (19)	2.
		Color work.		Color work.	

## THESIS

At the beginning of the fourth year, each student in this Course will take up as thesis work some special line of inquiry within the field of the degree sought. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the fifteenth day of December of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

## OUTLINE OF THE COURSE IN CERAMICS

NOTE — The figure in parenthesis following the name of each study indicates the number of the study in its department. (See Departments of the University.)

## FIRST YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Mathematics (14)	5.	Mathematics (15, 16)	5.	Mathematics (17)	5.
Plane Trigonometry.		Trigonometry and Algebra.		Plane Analytics.	
Chemistry (7)	5.	Chemistry (7)	5.	Chemistry (12)	4.
Inorganic.		Inorganic.		Qualitative Analysis.	
Modern Language	4.	Modern Language	4.	Modern Language	4.
French, Ger. or Spanish.		French, Ger. or Spanish.		French, Ger. or Spanish.	
Rhetoric (1) and (21) 2½.		Rhetoric (1) and (21) 2½.		Rhetoric (1) and (21) 2½.	
Composition.		Composition.		Composition.	
Drawing (1)	2.	Drawing (1)	2.	Drawing (2)	3.
Freehand.		Freehand.		Lettering.	
Drill and Gymnasium.		Drill and Gymnasium.		Drill.	

## SECOND YEAR

Drawing (3)	3.	Drawing (3)	3.	Drawing (3)	3.
Projections.		Descriptive Geom.		Shades, Shadows.	
Mathematics (18)	5.	Mathematics (19)	5.	Mathematics (20)	5.
Space Analytics.		Calculus.		Calculus.	
Physics (2)	3.	Physics (2)	3.	Physics (2)	3.
Mechanics, Heat.		Electricity, Magnetism.		Light, Sound.	
Physics (3)	2.	Physics (3)	2.	Physics (3)	2.
Problems.		Problems.		Problems.	
Ceramics (1)	5.	Ceramics (2)	5.	Ceramics (3)	5.
Laboratory.		Laboratory.		Laboratory.	
Military Drill.		Drill and Gymnasium.		Military Drill.	

## THIRD YEAR

Mathematics (6)	5.	Mathematics (6)	5.	Mathematics (6)	5.
Mechanics.		Mechanics.		Strength Materials.	
Ceramics (4)	5.	Ceramics (5)	5.	Ceramics (6)	5.
General Principles.		Bricks.		Pottery.	
Mine Eng. (4)	5.	Ceramics (7)	5.	Metallurgy (2)	3.
Mine Surveying.		Adv. Chem. Lab.		Mineralogy.	
Rhetoric (2)	2.	Rhetoric (3)	2.	Rhetoric (3)	2.
Expository Writing.		Brief-Making.		Argumentation.	
				Shopwork (11)	3.
				Forging.	

## FOURTH YEAR

Ceramics (9)	5.	Ceramics (10)	5.	Ceramics (11)	5.
Manf. of Bodies.		Glasses and Glazes.		Enamels, Colors.	
Metallurgy (4)	5.	Ceramics (12)	5.	Ceramics (15 )	5.
Fuels and Iron.		Cement.		Thesis Work.	
Shopwork (4)	3.	Ceramics (17)	4.	Mech. Eng. (25)	5.
Chipping and Filing.		Ceramic Const.		Laboratory.	
Geology (2)	5.	Geology (6)	3.	Drawing (7)	2.
General.		Economic.		Photography.	

## THESIS

At the beginning of the fourth year, each student in this Course will take up as thesis work some special line of inquiry within the field of the degree sought. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the fifteenth day of December of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

## OUTLINE OF THE COURSE IN CHEMISTRY

NOTE—The figure in parenthesis following the name of each study indicates the number of the study in its department. (See Departments of the University.)

### FIRST YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Mathematics (14)	5.	Mathematics (15, 16)	5.	Mathematics (17)	5.
Plane Trigonometry.		Trigonometry and Algebra.		Plane Analytics.	
Chemistry (7)	5.	Chemistry (7)	5.	Chemistry (12)	4.
Inorganic.		Inorganic.		Qualitative Analysis.	
Modern Language	4.	Modern Language	4.	Modern Language	4.
French, Ger. or Spanish.		French, Ger. or Spanish.		French, Ger. or Spanish.	
Rhetoric (1) and (21)	2½.	Rhetoric (1) and (21)	2½.	Rhetoric (1) and (21)	2½.
Composition.		Composition.		Composition.	
Drawing (1)	2.	Drawing (1)	2.	Drawing (2)	3.
Freehand.		Freehand.		Lettering.	
Drill and Gymnasium.		Drill and Gymnasium.		Drill.	

### SECOND YEAR

Chemistry (20)	4.	Chemistry (20)	4.	Chemistry (20)	4.
Quantitative.		Quantitative.		Quantitative.	
Chemistry (21)	2.	Chemistry (21)	2.	Chemistry (21)	2.
Physical Chemistry.		Physical Chemistry.		Physical Chemistry.	
Physics (2)	3.	Physics (2)	3.	Physics (2)	3.
Mechanics, Heat.		Electricity, Magnetism.		Light, Sound.	
Shopwork (7)	3.	Shopwork (11)	3.	Metallurgy (2)	3.
Woodwork.		Forging.		Mineralogy.	
German (1 or 5)	4.	German (1 or 5)	4.	German (1 or 5)	4.
Military Drill.		Drill and Gymnasium.		Military Drill.	

Two full years of German are required of all students graduating in the chemical course. Those who arrive at the beginning of their second year without having begun it, must commence then, and must continue it in the place of work otherwise elective until the specified amount is completed. Those who enter with credit for Elementary German, and pursue advanced German in their first year, may elect other work in the second year.

In addition, two or three hours of electives are required throughout the year. The following are suggested: Mathematics, Drawing, Agricultural Chemistry, Physiology, History, Economics.

### THIRD YEAR

Chemistry (8)	5.	Chemistry (9)	5.	Chemistry (9)	5.
Organic.		Organic.		Organic.	
Metallurgy (5)	5.	Metallurgy (6)	5.	Metallurgy (5)	5.
Laboratory.		Assaying.		Laboratory.	
Rhetoric (2)	2.	Rhetoric (3)	2.	Rhetoric (3)	2.
Expository Writing.		Brief-Making.		Argumentation.	

Electives five to eight hours throughout the year.

The following are suggested: Physical Laboratory, 3 to 5 hours; Geology, 5 hours — or Geology and Determinative Mineralogy, 5 hours; Shopwork, 3 hours; Agricultural Chemistry.

## FOURTH YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Chemistry (17)	4.	Chemistry (16)	3.	Chemistry (15)	4.
Inorganic Prep.		General.		Sanitary.	
Metallurgy (4)	5.	Metallurgy (4)	5.	Ceramics (16)	3.
Fuels and Iron.		Applied.		General Principles.	
		Physiology (8)	2.		
		Bacteriology.			

Electives to make the total work equal sixteen or eighteen hours, including Thesis work.

Students may take Metallurgy 5 and 3 in place of Chemistry 16 and 15 and Physiology 8. Such students will take ore dressing in the first term.

## THESIS

At the beginning of the fourth year, each student in this Course will take up as thesis work some special line of inquiry within the field of the degree sought. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the fifteenth day of December of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

## OUTLINE OF THE COURSE IN CIVIL ENGINEERING

NOTE—The figure in parenthesis following the name of each study indicates the number of the study in its department. (See Departments of the University.)

## FIRST YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Mathematics (14)	5.	Mathematics (15, 16)	5.	Mathematics (17)	5.
Plane Trigonometry.		Trigonometry and Algebra.		Plane Analytics.	
Chemistry (7)	5.	Chemistry (7)	5.	Chemistry (12)	4.
Inorganic.		Inorganic.		Qualitative Analysis.	
Modern Language	4.	Modern Language	4.	Modern Language	4.
French, Ger. or Spanish.		French, Ger. or Spanish.		French, Ger. or Spanish.	
Rhetoric (1) and (21)	2½.	Rhetoric (1) and (21)	2½.	Rhetoric (1) and (21)	2½.
Composition.		Composition.		Composition.	
Drawing (1)	2.	Drawing (1)	2.	Drawing (2)	3.
Freehand.		Freehand.		Lettering.	
Drill and Gymnasium.		Drill and Gymnasium.		Drill.	

## SECOND YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Drawing (3)	3.	Drawing (3)	5.	Drawing (3)	3.
Projections.		Descriptive Geometry.		Shades, Shadows.	
Mathematics (18)	5.	Mathematics (19)	5.	Mathematics (20)	5.
Space Analytics.		Calculus.		Calculus.	
Physics (2)	3.	Physics (2)	3.	Physics (2)	3.
Mechanics, Heat.		Electricity, Magnetism.		Light, Sound.	
Civil Eng. (1)	6.	Civil Eng. (4)	4.	Civil Eng. (2)	6.
Land Surveying.		Topography.		Railroad Surveying.	
Military Drill.		Drill and Gymnasium.		Military Drill.	

## SUMMER COURSE

Civil Engineering (22) 4 weeks, of 6 days per week. Field work in land and railroad surveying.



## THIRD YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Mathematics (6)	5.	Mathematics (6)	5.	Mathematics (6)	5.
Mechanics.		Mechanics.		Strength Materials.	
Civil Eng. (3)	4.	Civil Eng. (24)	5.	Civil Eng. (7)	5.
Topog. Surveying.		C. E. Drawing.		Bridge Stresses.	
Civil Eng. (16)	5.	Civil Eng. (6)	4.	Drawing (7)	2.
Roads and Streets.		Stereotomy.		Photography.	
Astronomy (2)	3.	Astronomy (2)	3.	Astronomy (2)	4.
Mathematical.		Mathematical.		Mathematical.	
Rhetoric (2)	2.	Rhetoric (3)	2.	Rhetoric (3)	2.
Expository Writing.		Brief-Making.		Argumentation.	

## SUMMER COURSE

Civil Engineering (23) 4 weeks, of 6 days per week. Field work in railroad and topographical surveying.

## FOURTH YEAR

Civil Eng. (8)	5.	Civil Eng. (17)	5.	Civil Eng. (18)	5.
Bridge Designing.		Railways.		Water Supply.	
Civil Eng. (15)	5.	Civil Eng. (14)	2.	Civil Eng. (10)	5.
Masonry.		Cement Testing.		Sanitary Eng.	
Elec. Eng. (6)	2.	Elec. Eng. (6 and 7)	4.		
Lectures.		Lectures and Lab.			
		Mech. Eng. (17)	3.	Mech. Eng. (25)	5.
		Laboratory.		Laboratory.	
Geology (2)	5.	Geology (6)	3.		
General.		Economic.			

## THESIS

At the beginning of the fourth year, each student in this Course will take up as thesis work some special line of inquiry within the field of the degree sought. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the fifteenth day of December of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

## OUTLINE OF THE COURSE IN ELECTRICAL ENGINEERING

NOTE—The figure in parenthesis following the name of each study indicates the number of the study in its department. (See Departments of the University.)

## FIRST YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Mathematics (14)	5.	Mathematics (15, 16)	5.	Mathematics (17)	5.
Plane Trigonometry.		Trigonometry and Algebra.		Plane Analytics.	
Chemistry (7)	5.	Chemistry (7)	5.	Chemistry (12)	4.
Inorganic.		Inorganic.		Qualitative Analysis.	
Modern Language	4.	Modern Language	4.	Modern Language	4.
French, Ger. or Spanish.		French, Ger. or Spanish.		French, Ger. or Spanish.	
Rhetoric (1) and (21)	2½.	Rhetoric (1) and (21)	2½.	Rhetoric (1) and (21)	2½.
Composition.		Composition.		Composition.	
Drawing (1)	2.	Drawing (1)	2.	Drawing (2)	3.
Freehand.		Freehand.		Lettering.	
Drill and Gymnasium.		Drill and Gymnasium.		Drill.	

## SECOND YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Drawing (3)	3.	Drawing (3)	3.	Drawing (3)	3.
Projections.		Descriptive Geom.		Shades, Shadows.	
Mathematics (18)	5.	Mathematics (19)	5.	Mathematics (20)	5.
Space Analytics.		Calculus.		Calculus.	
Physics (2)	3.	Physics (2)	3.	Physics (2)	3.
Mechanics, Heat.		Electricity, Magnetism.		Light, Sound.	
Physics (3)	2.	Physics (3)	2.	Physics (3)	2.
Problems.		Problems.		Problems.	
Shopwork (11)	2.			Physics (5)	4.
Forging.				Laboratory.	
Rhetoric (2)	2.	Rhetoric (3)	2.	Rhetoric (3)	2.
Expository Writing.		Brief-Making.		Argumentation.	
Shopwork (4)	2.	Shopwork (13)	3.		
Chipping, Filing.		Machine Work.			
Military Drill.		Drill and Gymnasium.		Military Drill.	

Instruction in wood-working is given in this course. It does not appear in this Catalogue, owing to intended rearrangements of the shopwork courses, which will include a summer course of four weeks.

## THIRD YEAR

Mathematics (6)	5.	Mathematics (6)	5.	Mathematics (6)	5.
Mechanics.		Mechanics.		Strength Materials.	
Physics (6)	5.	Physics (6)	5.	Mech. Eng. (32)	5.
Laboratory.		Laboratory.		Power Plants.	
Physics (4)	3.	Mech. Eng. (3)	5.	Mech. Eng. (28)	2.
Electricity, Magnetism.		Mechanism.		Laboratory.	
Shopwork (14)	3.	Elec. Eng. (8)	4.	Ind. Arts (7)	3.
Machine Work.		D. C. Machinery.		Mach. Design.	
Drawing (5)	3.			Elec. Eng. (9)	4.
Technical.				Laboratory.	

## FOURTH YEAR

Elec. Eng. (10)	3.	Elec. Eng. (10)	3.	Elec. Eng. (13)	5.
A. C. Machinery.		A. C. Machinery.		Applications.	
Elec. Eng. (11)	3.	Elec. Eng. (14)	4.	Elec. Eng. (14)	4.
Laboratory.		Designing.		Designing.	
Mech. Eng. (33)	5.	Elec. Eng. (11)	3.	Elec. Eng. (11)	5.
Engines and Boilers.		Laboratory.		Laboratory, Thesis.	
Mech. Eng. (29)	3.	Elec. Eng. (12)	2.		
Laboratory.		Transmission.			
		Mech. Eng. (30)	2.		
		Laboratory.			
*Elective	3-5.	*Elective	3-5.	*Elective	3-5.

## THESIS

At the beginning of the fourth year, each student in this Course will take up as thesis work some special line of inquiry within the field of the degree sought. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the fifteenth day of December of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

\*Subject to the approval of the Professor of Electrical Engineering.

## OUTLINE OF THE COURSE IN INDUSTRIAL ARTS

NOTE—The figure in parenthesis following the name of each study indicates the number of the study in its department. (See Departments of the University.)

### FIRST YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Mathematics (14)	5.	Mathematics (15, 16)	5.	Mathematics (17)	5.
Plane Trigonometry.		Trigonometry and Algebra.		Plane Analytics.	
Chemistry (7)	5.	Chemistry (7)	5.	Chemistry (12)	4.
Inorganic.		Inorganic.		Qualitative Analysis.	
Modern Language	4.	Modern Language	4.	Modern Language	4.
French, Ger. or Spanish.		French, Ger. or Spanish.		French, Ger. or Spanish.	
Rhetoric (1) and (21)	2½.	Rhetoric (1) and (21)	2½.	Rhetoric (1) and (21)	2½.
Composition.		Composition.		Composition	
Drawing (1)	2.	Drawing (1)	2.	Drawing (2)	3.
Freehand.		Freehand.		Lettering.	
Drill and Gymnasium.		Drill and Gymnasium.		Drill.	

### SECOND YEAR

Drawing (2)	3.	Drawing (3)	3.	Drawing (3)	3.
Projections.		Descriptive Geom.		Shades, Shadows.	
Physics (2)	3.	Physics (2)	3.	Physics (2)	3.
Mechanics, Heat.		Electricity, Magnetism.		Light, Sound.	
Physics (3)	2.	Physics (3)	2.	Physics (3)	2.
Problems.		Problems.		Problems.	
Shopwork (7)	3.	Shopwork (9)	3.	Shopwork (8)	3.
Woodwork.		Adv. Pattern Making.		Cabinet Work.	
Shopwork (3)	3.	Shopwork (11)	3.	Shopwork (12)	3.
Foundry.		Forging.		Adv. Forging.	
Rhetoric (2)	2.	Rhetoric (3)	2.	Rhetoric (3)	2.
Expository Writing.		Brief-Making.		Argumentation.	
Economics (2)	2.	Economics (3)	2.	Economics (4)	2.
Industrial Society.		Indus. and Fin. Hist.		Transportation Problems.	
Military Drill.		Drill and Gymnasium.		Military Drill.	

### THIRD YEAR

Drawing (5)	3.	Industrial Arts (2)	3.	Industrial Arts (2)	3.
Technical.		Designing.		Designings.	
Industrial Arts (1)	3.	Industrial Arts (1)	3.	Industrial Arts (1)	3.
Tools and Machines.		Tools and Machines.		Tools and Machines.	
Shopwork (4)	3.	Shopwork (13)	3.	Shopwork (14)	3.
Chipping and Filing.		Machine Work.		Machine Work.	
Metallurgy (4)	5.	Metallurgy (4)	2.	Mech. Eng. (32)	5.
Fuels and Iron.		Steel.		Power plants.	
		Mech. Eng. (22)	3.		
		Timber and Masonry.			
Economics (1a)	4.	Economics (1a)	2.		
Elem. of Polit. Econ.		Elem. of Polit. Econ.			
		History (1b)	2.	History (1b)	4.
		U. S. Political.		U. S. Political.	

### FOURTH YEAR

Shopwork (15)	3.	Shopwork (16)	3.	Shopwork (17)	3.
Adv. Mach. Work.		Adv. Mach. Work.		Adv. Mach. Work.	
Elect. Eng. (6)	2.	Elect. Eng. (6)	2.	Civil Eng. (21)	3.
Lectures.		Lectures.		Surveying.	
Elect. Eng. (7)	2.	Elect. Eng. (7)	2.		
Laboratory.		Laboratory.			
Industrial Arts (3)	3.	Industrial Arts (3)	3.	Industrial Arts (3)	3.
Shop Equipment.		Shop Appliances.		Shop Management.	
Industrial Arts (4)	3.	Industrial Arts (4)	3.	Industrial Arts (4)	3.
Adv. Designing.		Adv. Designing.		Adv. Designing.	
Mech. Eng. (28)	2.	Mech. Eng. (29)	2.	Mech. Eng. (30)	2.
Laboratory.		Laboratory.		Laboratory.	
Polit. Science (11)	3.	Economics (6)	2.	Economics (7)	2.
Polit. Inst. of U. S.		Railroads, Crises, etc.		Labor and Capital.	

## THESIS

At the beginning of the fourth year, each student in this Course will take up as thesis work some special line of inquiry within the field of the degree sought. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the fifteenth day of December of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

## OUTLINE OF THE COURSE IN MANUAL TRAINING

NOTE—The figure in parenthesis following the name of each study indicates the number of the study in its department. (See Departments of the University.)

## FIRST YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Mathematics (14)	5.	Mathematics (15, 16)	5.	Mathematics (17)	5.
Plane Trigonometry.		Trigonomet. and Algebra.		Plane Analytics.	
Chemistry (7)	5.	Chemistry (7)	5.	Chemistry (12)	4.
Inorganic.		Inorganic.		Qualitative Analysis.	
Modern Language	4.	Modern Language	4.	Modern Language	4.
French, Ger. or Spanish.		French, Ger. or Spanish.		French, Ger. or Spanish.	
Rhetoric, (1) and (21)	2½.	Rhetoric (1) and (21)	2½.	Rhetoric (1) and (21)	2½.
Composition.		Composition.		Composition.	
Drawing (1)	2.	Drawing (1)	2.	Drawing (2)	3.
Freehand.		Freehand.		Lettering.	
Drill and Gymnasium.		Drill and Gymnasium.		Drill.	

## SECOND YEAR

Drawing (3)	3.	Drawing (3)	3.	Drawing (3)	3.
Projections.		Descriptive Geom.		Shades, Shadows.	
Physics (2)	3.	Physics (2)	3.	Physics (2)	3.
Mechanics, Heat.		Electricity, Magnetism.		Light, Sound.	
Physics (3)	2.	Physics (3)	2.	Physics (3)	2.
Problems.		Problems.		Problems.	
Shopwork (7)	3.	Shopwork (9)	3.	Shopwork (8)	3.
Woodwork.		Adv. Pattern Making.		Cabinet Work.	
Shopwork (3)	3.	Shopwork (11)	3.	Shopwork (12)	3.
Foundry.		Forging.		Adv. Forging.	
Rhetoric (2)	2.	Rhetoric (3)	2.	Rhetoric (3)	2.
Expository Writing.		Brief-making.		Argumentation.	
Education (1)	3.	Education (1)	3.	Education (1)	3.
Elem. Psychology.		Elem. Psychology.		Elem. Psychology.	
Military Drill.		Drill and Gymnasium.		Military Drill.	

## THIRD YEAR

Drawing (5)	3.	Industrial Arts (2)	3.	Industrial Arts (2)	3.
Technical.		Designing.		Designing.	
Industrial Arts (1)	3.	Industrial Arts (1)	3.	Industrial Arts (1)	3.
Tools and Machines.		Tools and Machines.		Tools and Machines.	
Shopwork (4)	3.	Shopwork (13)	3.	Shopwork (14)	3.
Chipping, Filing.		Machine Work.		Machine Work.	
Botany (9)	2.	History (1b)	2.	History (1b)	4.
Dendrology.		U. S. Political.		U. S. Political.	
Chemistry (20)	4.	Chemistry (20)	4.	Chemistry (20)	4.
Quantitative.		Quantitative.		Quantitative.	
Chemistry (21)	2.	Chemistry (21)	2.	Chemistry (21)	2.
Physical		Physical,		Physical	
or		or		or	
Physics (5)	5.	Physics (5)	5.	Physics (5)	5.
Laboratory.		Laboratory.		Laboratory.	



## FOURTH YEAR

FIRST TERM.	Credit hours	THIRD TERM.	Credit hours	THIRD TERM.	Credit hours
Shopwork (15)	3.	Shopwork (16)	3.	Mech. Eng. (32)	5.
Adv. Mach. Work.		Adv. Mach. Work.		Power Plants.	
Elect. Eng. (6)	2.	Elect. Eng. (6)	2.	Mech. Eng. (28)	2.
Lectures.		Lectures.		Laboratory.	
Elect. Eng. (7)	2.	Elect. Eng. (7)	2.	Education (5)	4.
Laboratory.		Laboratory.		Science of Educ.	
Education (5)	4.	Education (5)	4.		
Science of Educ.		Science of Educ.			
Polit. Science (11)	3.				
Polit. Inst. of U. S.					
Electives	2-5.	Electives	5-7.	Electives	5-7.

## THESIS

At the beginning of the fourth year, each student in this Course will take up as thesis work some special line of inquiry within the field of the degree sought. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the fifteenth day of December of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

## OUTLINE OF THE COURSE IN MECHANICAL ENGINEERING

NOTE—The figure in parenthesis following the name of each study indicates the number of the study in its department. (See Departments of the University.)

## FIRST YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Mathematics (14)	5.	Mathematics (15, 16)	5.	Mathematics (17)	5.
Plane Trigonometry.		Trigonom. and Algebra.		Plane Analytics.	
Chemistry (7)	5.	Chemistry (7)	5.	Chemistry (12)	4.
Inorganic.		Inorganic.		Qualitative Analysis.	
Modern Language	4.	Modern Language	4.	Modern Language	4.
French, Ger. or Spanish.		French, Ger. or Spanish.		French, Ger. or Spanish.	
Rhetoric (1) and (21)	2½.	Rhetoric (1) and (21)	2½.	Rhetoric (1) and (21)	2½.
Composition.		Composition.		Composition.	
Drawing (1)	2.	Drawing (1)	2.	Drawing (2)	3.
Freehand.		Freehand.		Lettering.	
Drill and Gymnasium.		Drill and Gymnasium.		Drill.	

## SECOND YEAR

Drawing (3)	3.	Drawing (3)	3.	Drawing (3)	3.
Projections.		Descriptive Geom.		Shades, Shadows.	
Mathematics (18)	5.	Mathematics (19)	5.	Mathematics (20)	5.
Space Analytics.		Calculus.		Calculus.	
Physics (2)	3.	Physics (2)	3.	Physics (2)	3.
Mechanics, Heat.		Electricity, Magnetism.		Light, Sound.	
Shopwork (11)	3.	Physics (7)	2.	Physics (7)	3.
Forging.		Laboratory.		Laboratory.	
Rhetoric (2)	2.	Rhetoric (3)	2.	Rhetoric (3)	2.
Expository writing.		Brief-Making.		Argumentation.	
Shopwork (3)	2.	Shopwork (4)	3.	Shopwork (13)	3.
Foundry.		Chipping, Filing.		Machine Work.	
Military Drill.		Drill and Gymnasium.		Military Drill.	

Instruction in wood-working is given in this course. It does not appear in this Catalogue, owing to intended rearrangements of the shopwork course, which will include a summer course of four weeks.

## THIRD YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Mathematics (6)	5.	Mathematics (6)	5.	Mathematics (6)	5.
Mechanics.		Mechanics.		Strength Materials.	
Mech. Eng. (12)	2.	Mech. Eng. (3)	5.	Mech. Eng. (3)	2.
Laboratory.		Mechanism.		Mechanism.	
Drawing (5)	3.	Mech. Eng. (22)	3.	Drawing (7)	2.
Technical.		Timber, Masonry.		Photography.	
Metallurgy (4)	5.	Metallurgy (4)	2.	Civil Eng. (19)	5.
Fuels and Iron.		Steel.		Trusses.	
Shopwork (14)	3.	Shopwork (15)	4.	Mech. Eng. (32)	5.
Machine Work.		Adv. Mach. Work.		Power Plants.	
Mathematics (11)	1.				
Diff. Equations.					

## FOURTH YEAR

Mech. Eng. (33)	5.	Mech. Eng. (34)	5.	Mech. Eng. (19)	5.
Engines and Boilers.		Thermodynamics.		Machine Design.	
Mech. Eng. (27)	5.	Mech. Eng. (14)	4.	Mech. Eng. (15)	3.
Laboratory.		Laboratory.		Laboratory.	
Mech. Eng. (18)	5.	Mech. Eng. (18)	5.	Mech. Eng. (21)	5.
Machine Design.		Machine Design.		Thesis.	
Elec. Eng. (6)	2.	Elec. Eng. (6)	2.	Industrial Arts (5)	3.
Lectures.		Lectures.		Shop Appliances.	
Elec. Eng. (7)	2.	Elec. Eng. (7)	2.	Mech. Eng. (31)	3.
Laboratory.		Laboratory.		Hydraulic Machinery.	

## THESIS

At the beginning of the fourth year, each student in this Course will take up as thesis work some special line of inquiry within the field of the degree sought. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the fifteenth day of December of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

## OUTLINE OF THE COURSE IN MINING ENGINEERING

NOTE—The figure in parenthesis following the name of each study indicates the number of the study in its department. (See Departments of the University.)

### FIRST YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Mathematics (14)	5.	Mathematics (15, 16)	5.	Mathematics (17)	5.
Plane Trigonometry.		Trigonometry and Algebra.		Plane Analytics.	
Chemistry (7)	5.	Chemistry (7)	5.	Chemistry (12)	4.
Inorganic.		Inorganic.		Qualitative Analysis.	
Modern Language	4.	Modern Language	4.	Modern Language	4.
French, Ger. or Spanish.		French, Ger. or Spanish.		French, Ger. or Spanish.	
Rhetoric (1) and (21)	2½.	Rhetoric (1) and (21)	2½.	Rhetoric (1) and (21)	2½.
Composition.		Composition.		Composition.	
Drawing (1)	2.	Drawing (1)	2.	Drawing (2)	3.
Freehand.		Freehand.		Lettering.	
Drill and Gymnasium.		Drill and Gymnasium.		Drill.	

### SECOND YEAR

Drawing (3)	3.	Drawing (3)	3.	Drawing (3)	3.
Projections.		Descriptive Geom.		Shades, Shadows.	
Mathematics (18)	5.	Mathematics (19)	5.	Mathematics (20)	5.
Space Analytics.		Calculus.		Calculus.	
Physics (2)	3.	Physics (2)	3.	Physics (2)	3.
Mechanics, Heat.		Electricity, Magnetism.		Light, Sound.	
Metallurgy (5)	5.	Metallurgy (5)	5.	Metallurgy (5)	5.
Laboratory.		Laboratory.		Laboratory.	
Shopwork (7)	2.	Shopwork (7)	2.	Metallurgy (2)	3.
Woodwork.		Forging.		Mineralogy.	
Military Drill.		Drill and Gymnasium.		Military Drill.	

### THIRD YEAR

Mathematics (6)	5.	Mathematics (6)	5.	Mathematics (6)	5.
Mechanics.		Mechanics.		Strength Materials.	
Metallurgy (4)	5.	Metallurgy (4)	5.	Metallurgy (3)	5.
Fuels and Iron.		General.		Deter. Mineralogy.	
Mine Eng. (4)	5.	Metallurgy (6)	5.	Civil Eng. (19)	5.
Mine Surveying.		Assaying.		Trusses.	
Rhetoric (2)	2.	Rhetoric (3)	2.	Rhetoric (3)	2.
Expository Writing.		Brief-Making.		Argumentation.	

### FOURTH YEAR

Mine Eng. (5)	5.	Mine Eng. (5)	5.	Mine Eng. (5)	5.
Mine Engineering.		Mine Engineering.		Mine Engineering.	
Geology (2)	5.	Geology (6)	3.	Mech. Eng. (25)	5.
General.		Economic.		Laboratory.	
Metallurgy (8)	2.	Metallurgy (7)	3.	Mine Eng. (6)	5.
Ore Dressing.		Metal Construction.		Plans and Specifications.	
Elect. Eng. (6)	2.	Elect. Eng. (6)	2.	Drawing (7)	2.
Lectures.		Lectures.		Photography.	
Elect. Eng. (7)	2.	Elect. Eng. (7)	2.		
Laboratory.		Laboratory.			
		Geology (7)	2.		
		Petrography.			

### THESIS

At the beginning of the fourth year, each student in this Course will take up as thesis work some special line of inquiry within the field of the degree sought. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the fifteenth day of December of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

## COURSES NOT LEADING TO A DEGREE

The following short courses are offered by the University, in the belief that they will meet the needs of a large class of young men who for any reason will not or cannot obtain the benefits of the thorough courses already described. The University recognizes that there are many valid reasons which may stand in the way of some, whose ability to receive and use the highest forms of education is without question, and it is thought that in extending opportunities for such training as will be available to these young men, the University is filling a real want.

No diploma is given to those who complete these courses, but a certificate is issued stating the list of studies which the student has taken in his course, and in which his work has been satisfactory.

## REQUIREMENTS FOR ADMISSION TO THE SHORT COURSES

Applicants must not be less than seventeen years of age, and unless they are over twenty-one years of age must pass an examination in Arithmetic and Geography, and must be able to write a business letter or a short theme correct in Grammar and Orthography, or bring High School or other certificates for these branches.

Applicants who are over twenty-one years of age are admitted without examination.

## OUTLINE OF THE SHORT COURSE IN CLAY-WORKING

NOTE—The figure in parenthesis following the name of each study indicates the number of the study in its department. (See Departments of the University.)

## FIRST YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Chemistry (7)	5.	Chemistry (7)	5.	Chemistry (12)	5.
Inorganic.		Inorganic.		Analytical.	
Physics (1)	5.	Physics (1)	5.	Geology (1)	5.
Elementary.		Elementary.		Phys. Geography.	
Mathematics (1)	5.	Mathematics (3a)	5.	Shopwork (11)	3.
Algebra.		Geometry.		Forging.	
				Shopwork (4)	2.
				Chipping, Filing.	
Military Drill.		Drill and Gymnasium.		Military Drill.	

## SECOND YEAR

Ceramics (1)	5.	Ceramics (2)	5.	Ceramics (3)	5.
Chem. Analysis.		Analysis of Clays.		Analysis of Glazes.	
Ceramics (4)	5.	Ceramics (5)	5.	Ceramics (6)	5.
General Principles.		Brick.		Pottery.	
Geology (2)	5.	Geology (6)	3.	Drawing (11)	5.
General.		Economic.		Mechanical.	
		Drawing (1)	2.		
		Freehand.			
Military Drill.		Military Drill.		Military Drill.	



## OUTLINE OF THE SHORT COURSE IN INDUSTRIAL ARTS

NOTE—The figure in parenthesis following the name of each study indicates the number of that study in its department. (See Departments of the University.)

### FIRST YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Drawing (1)	1.	Drawing (1)	1.	Drawing (1)	1.
Freehand.		Freehand.		Freehand.	
Drawing (8)	2.	Drawing (8)	2.	Drawing (2)	2.
Geometric.		Projections.		Lettering.	
Mathematics (2)	5.	Mathematics (2)	5.	Mathematics (2)	5.
Algebra.		Algebra.		Algebra.	
Mathematics (3)	5.	Mathematics (13)	5.	Mathematics (14)	5.
Plane Geometry.		Space Geometry.		Trigonometry.	
Shopwork (7)	3.	Shopwork (9)	3.	Shopwork (11)	3.
Pattern Making.		Adv. Pattern Making.		Forging.	
Military Drill.		Drill and Gymnasium.		Military Drill.	

### SECOND YEAR

Drawing (3)	3.	Drawing (3)	3.	Drawing (3)	3.
Projections.		Descriptive Geom.		Shades, Shadows.	
Industrial Arts (1)	3.	Industrial Arts (1)	3.	Industrial Arts (1)	3.
Tools, Machines.		Tools, Machines.		Tools, Machines.	
Physics (1)	5.	Physics (1)	5.	Geology (1)	5.
Elementary.		Elementary.		Phys. Geography.	
Shopwork (3-4)	5.	Shopwork (13)	5.	Shopwork (15)	5.
Foundry, Filing.		Machine Work.		Adv. Mach. Work.	
Military Drill.		Military Drill.		Military Drill.	

## OUTLINE OF THE SHORT COURSE IN MINING

NOTE—The figure in parenthesis following the name of each study indicates the number of that study in its department. (See Departments of the University.)

### FIRST YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Mathematics (2)	5.	Mathematics (2)	5.	Mathematics (2)	5.
Algebra.		Algebra.		Algebra.	
Mathematics (3)	5.	Mathematics (13)	5.	Mathematics (14)	5.
Geometry.		Geometry.		Trigonometry.	
Physics (1)	5.	Physics (5)	5.	Geology (1)	5.
Elementary.		Elementary.		Phys. Geography.	
Military Drill.		Drill and Gymnasium.		Military Drill.	

### SECOND YEAR.

Drawing (1)	2.	Drawing (4)	3.	Drawing (2)	2.
Freehand.		Drafting.		Lettering.	
Drawing (3)	3.	Geology (4)	5.	Shopwork (11)	3.
Projections.		Elementary.		Forging.	
Chemistry (7)	5.	Chemistry (13)	3.	Metallurgy (9)	5.
Inorganic.		Laboratory.		Mineral Chemistry.	
Mine Eng. (1)	5.	Mine Eng. (2)	5.	Mine Eng. (3)	5.
Mine Surveying.		Ventilat. Haulage.		Mine Operating.	
Military Drill.		Military Drill.		Military Drill.	

## THE COLLEGE OF LAW

### REQUIREMENTS FOR ADMISSION

Requirements for admission of students who are candidates for a degree, beginning with the class graduating in 1904:—

1. *Arithmetic, Descriptive and Physical Geography, English Grammar, and United States History.*

2. *English Composition and Rhetoric, and English Classics*—Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of several brief essays, of which one will be upon a subject drawn from the applicant's observation or experience, and the others upon topics requiring a knowledge of the following books, or equivalents: Shakespeare's *Merchant of Venice*, *Julius Caesar* and *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Conciliation with the Colonies*; Macaulay's *Essays on Milton and Addison*; The Sir Roger de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*.

To meet the English requirement the schools should provide courses in composition-practice and courses in English classics extending side by side through the preparatory years.

In the courses in composition, pupils should be afforded regular and abundant practice in preparing narrative, descriptive, expository and argumentative themes, and should be familiarized with those principles of Rhetoric which are most helpful in composition, such as the principles of sentence-structure, outlining, paragraphing, and choice of words. Scott and Denney's *Composition-Rhetoric* is recommended as a guide. The study of specimens of bad English from a text-book is not recommended; in order to insure accuracy, a considerable amount of the written work of the pupils should be corrected by the teacher and revised and rewritten by the pupils themselves. Some of the composition-work may be based upon the reading prescribed above, but much of it should be based upon the observation and experience of the pupils.

In the courses in English classics, pupils should read the prescribed books with sufficient care to become familiar with the plot, incidents, and characters of all of them and should also learn something of their authors and of their places in literary history. A few of these books, or portions of all of them, should be examined closely with reference to form, structure, method, language, and leading characteristics of style. The voluntary outside reading of additional books should be encouraged by the teacher. In connection with all of the reading it is recommended that the memorizing of notable passages of prose and poetry be required.

3. *Algebra*—Taylor's Academic or equivalent.

4. *Botany*—Kellerman's Elementary Botany and Spring Flora

5. *Civil Government*—Fiske or Thorpe preferred.

6. *Geometry, Plane and Solid*—Venable, Wentworth or Wells.

7. *History*—Either Myers's General History (or equivalent); or, if the teacher's training and the school library will warrant, Greek and Roman History on the topical method.

8. *Physics*—Carhart and Chute, Gage, Avery, or Appleton.

9. Any two of the following groups:

(a) *Latin*—Pronunciation (the Roman method); Grammar (an exact knowledge of the inflections is essential); Cæsar, the first four books of the *De Bello Gallico*; Cicero, six orations, including *Pro Lege Manilia*; Vergil, the first six books of the *Aeneid*, with Prosody; Prose Composition, Daniell or Collar or Jones, entire.

(b) *Greek*—Grammar (Goodwin's preferred) and Prose Composition; or the first 100 lessons of White's Beginner's Greek Book. Reading: The first four books of Xenophon's *Anabasis*. At least two years should be devoted to this work.

\*For requirements for admission to the second and third years of the law school see Advanced Standing.

(c) *French*—The whole subject of French Grammar. Applicants will be expected to read at sight easy French; and to translate correctly into French, simple English sentences. Two years ought to be given to this study, the first year being spent mainly on the Grammar with easy reading; the second devoted to reading good modern French, with grammatical analysis and exercises in writing. The texts read should be chiefly narrative and conversational prose; one or more prose comedies of the nineteenth (*not* the seventeenth) century should be included.

(d) *German*—Joynes-Meissner's or Thomas's Grammar is recommended. The essentials in these grammars should have been mastered thoroughly, *i. e.*, declensions of nouns and adjectives, pronouns, comparison of adjectives, prepositions, regular and irregular verbs and essentials of syntax. The following books or their equivalents must have been read (not less than 600 pages). Joynes's or Whitney's Reader; Hillern's *Höher als die Kirche*; Riehl's *Der Fluch der Schönheit*; Freytag's *Die Verlorne Handschrift*, Gerstäcker *Irrfahrten*.

(e) While the preferred requirement is that each candidate shall offer any two of the foregoing languages, he will be permitted to offer in place of one of the two the following group:

1. *Chemistry*—Williams' or Remsen's.
2. *Physiology*—Martin's (briefer course).
3. *English Literature*—Pancoast's Introduction to English Literature and an acquaintance with representative works in each period.
4. *English History*—Montgomery.

10. In addition to the foregoing requirements for admission to the work of the College, *each candidate for a degree* must submit satisfactory evidence that he has successfully pursued a course of study equivalent to the first two years of any course in the College of Arts, Philosophy and Science, of this University.

The following statement of the work done in this University in the first two years of the College of Arts, Philosophy and Science of this University will serve as an illustration of the amount of work of college grade necessary for a degree. Equivalents for any subject will be accepted.

### FIRST YEAR

FIRST SEMESTER.	Credit hours	SECOND SEMESTER.	Credit hours
Greek or German	4.	Greek or German	4.
Xenophon.		Herodotus, Homer.	
Latin or French	4.	Latin or French	4.
Cicero.		Livy, Horace.	
Mathematics	3.	Mathematics	3.
Algebra, Analytics, Calculus		Trigonometry, Analytics, Calculus.	
Rhetoric	3.	Rhetoric	3.
Composition.		Composition.	

One of the following (the choice being for the year):

Botany	3.	Botany	3.
Botany	4.	Zoology	4.
Systematic and Physiological.		Comparative.	
Chemistry	3.	Chemistry	3.
Inorganic.		Inorganic.	
Physics	3.	Physics	3.
Mechanics, Heat, etc.		Electricity, Magnetism, etc.	
Zoology	3.	Zoology	3.
Comparative Zoology.		Comparative Zoology.	



## SECOND YEAR

FIRST SEMESTER.	Credit hours	SECOND SEMESTER.	Credit hours
Greek or German	4.	Greek or German	4.
Lysias.		Homer, Plato.	
History	} 4.	Economics	} 4
United States		Elementary	
or		or	
Economics	} 4.	History	} 4.
Elementary		United States	
Latin or French	4.	Latin or French	4.
Horace, Pliny.		Tacitus, Juvenal.	
English Literature.	4.	Rhetoric	4.
Introductory.		Analysis of Prose.	

The candidate will be subject to examination in such work. Where this work has been done in a College or University of approved standing, the certificate of such college or university will be accepted as a substitute for such examination.

### REQUIREMENTS FOR ADMISSION FOR STUDENTS NOT CANDIDATES FOR A DEGREE

Beginning with the class that will finish in June, 1904, for students who are not candidates for a degree, the requirements for admission will be the same as the requirements for candidates for a degree except paragraph 10, page ... No work of college grade is required of students who are not candidates for a degree.

#### ADVANCED STANDING.

The requirements both for admission as candidate for a degree and for admission not as a candidate for a degree, have been raised to take effect first upon the class graduating in 1904. Admission to the First Year of the College of Law in the fall of 1901 will be under the new requirements already given.\*

Admission to the Second and Third years will be under the pre-existing requirements. These are as follows:

For classes graduating in 1902 and 1903, requirements for admission not as candidates for a degree:

1. *To the First Year*—Applicants for admission to the First Year must present satisfactory evidence (by teacher's certificate—High School, Academy or College diploma—or by examination) of having a good common school education, including *United States History*, *Civil Government* and a thorough training in *English Composition*.

2. *To the Second Year*—In addition to the requirements for admission to the First Year, applicants for admission to the Second Year must present satisfactory evidence of having completed the work of the First Year of the Course in Law or its equivalent.†

3. *To the Third Year*—In addition to the requirements for admission to the Second Year, applicants for admission to the Third Year must present satisfactory evidence of having completed the work of the First and Second Years of the Course in Law, or its equivalent.

REQUIREMENTS FOR ADMISSION AS CANDIDATE FOR A DEGREE—Students seeking a degree must, at the time of registration, present in addition to the

\* NOTE—See Requirements for Admission.

† NOTE—See page 112.



requirements above mentioned satisfactory evidence of having completed a course of study, the minimum requirement of which is as follows:

*Arithmetic, Civil Government, Geography, Grammar, History of the United States, Physical Geography, Physiology, Rhetoric, Physics, (Gage or an equivalent) Geometry, Algebra, (Wentworth's elements or an equivalent); and, in addition, the equivalent of 75 hours per week for one term of 12 weeks (a total of 900 hours) chosen from any five or more of the following subjects, one at least being a Science and two at least being in History or Political Science (unless the applicant is especially permitted to offer approved substitutes): Botany, Chemistry, English Constitutional History, English History, English Literature, French, Geology, General History, German, Greek, Latin, Logic, Physics, Political Economy, Psychology, Surveying, Trigonometry, United States Constitutional History; provided, that not less than 65 hours for twelve weeks (a total of 780 hours) of this work shall be of collegiate or university grade. Opportunity will be given for examination in any subject for admission as above indicated, or, if this last mentioned work has been done by the candidate in a College or University of good and approved standing, certificates of such institution will be accepted as a substitute for such examination.*

### SPECIAL STUDENTS

Persons wishing a knowledge of legal principles *for business purposes only*, but not intending to apply for a degree or to take a full course, may be admitted at any time as special students, and may avail themselves of such advantages of the College as they may deem expedient, subject in each case to the approval by the faculty of the work proposed to be undertaken. Their convenience will not be taken into consideration in arranging classes, and they must make satisfactory arrangements as to fees, hours of recitation, etc., with the Dean.

### ADMISSION TO GRADUATE WORK

Graduates of this or other Colleges of Law may, on application to the Faculty, enter the College of Law and pursue such lines of work as may be arranged or approved by the appropriate committee. Such graduate students are subject to all the ordinary regulations prescribed for under-graduates.

Master degrees are conferred upon graduates in Law at the end of not less than one year's residence, which shall be wholly devoted to the completion of an approved course of study in the College of Law. Each is required in addition to present an acceptable thesis upon some subject connected with his course of study.

### TIME OF ENTRANCE

In order to obtain the full benefit of the arrangement and detail of the course of study, a student should enter at the beginning of the First Year and attend regularly until the completion of the Third Year.

Those who are unable to do this are earnestly advised to enter promptly at the beginning of the college year, or if special work is desired in the second semester, at the beginning of such semester.

Those entering in the middle of a semester are greatly retarded both by the amount of work actually in arrears and also by the fact that the presentation of advance work must be given on the assumption that work already passed is properly understood by the student.

### ENTRANCE EXAMINATIONS

The University is open on equal terms to both sexes.

The entrance examinations for 1901 will be held on Monday and Tuesday, June 17 and 18, and on Monday, September 16. A part of the examinations may

be taken in June and the remainder in September. Conditions incurred at the June examinations must be removed at the September examinations.

Applicants for admission to the College of Law must be at least eighteen years of age. Each must be provided with credentials of scholarship from his last instructor or from the last institution with which he has been connected, and with a certificate of good moral character.

There are three modes of admission to the University:

1. Certificates of the preparatory departments of Colleges of approved standing and of Normal Schools in Ohio, and of the State Board of School Examiners, are accepted, if found satisfactory, in lieu of examination for preparatory studies, under the following conditions:

Each certificate must contain a detailed statement of the studies pursued, the text books used, the amount of work done in each study, the amount of time devoted to it, the date of the examination, and the applicant's rank or standing in it. A copy of the course of study should accompany the certificate; and both should be sent to the University not later than the first of September. *The University cannot promise this recognition to those certificates presented during entrance week.*

Blank certificates will be furnished on application.

Applicants for admission who come from other Colleges or Universities are required to bring certificates of honorable dismissal.

Teachers' certificates (in force) will be accepted at their face value.

2. Diplomas and certificates of approved High Schools will be accepted in lieu of examination for preparatory studies only under the following conditions:

(a) The certificate must state in detail the studies pursued, the text books used, the amount of work done in each study, the amount of time devoted to it, the date of the examination in it, and the rank or standing of the candidate in it.

(b) The certificate will be accepted for such studies only, or such part of each, as it shall show to have been satisfactorily accomplished.

(c) Every such certificate must be accompanied with a diploma showing that the candidate has completed the course of study in the school from which he comes. But the General Faculty may except from this condition schools whose work is known to be exceptionally good, provided the candidate has attended the school two full years.

3. No applicant for admission to the University will be accepted who is deficient or conditioned in required entrance work representing in the aggregate more than one daily recitation for a year. This rule does not apply to the college work indicated in paragraph 10, p —, as requisite for a degree. Work of collegiate grade may be made up at any time before the Friday preceding Commencement Day.

All other applicants are subject to examination on the groups of study mentioned above, under the heading of Requirements for Admission.

*Full equivalents for the text books named will be accepted.*

## APPLICATIONS FOR ADMISSION FOR DEGREES

*At the time of registration* all applicants should present their diplomas and certificates of work done. These certificates should state in detail the studies pursued, the text books used, the amount of work done in each study, the amount of time devoted to it, the date of the examination, and the rank or standing of the candidate in it. A copy of the course of study must accompany the certificate in all cases. These statements should also be accompanied by information as to age, occupation, experience, and work done since leaving school. Blanks for application will be furnished on request made to the Dean.

## THESIS

Each candidate for a degree is required to prepare and deposit with the Faculty, not later than the second Saturday before Commencement of the year of graduation, a thesis of not less than fifteen hundred nor more than five thousand words, exclusive of citations of authorities, upon some subject selected by himself with the approval of the professor giving instruction in that division of law from which the subject is chosen.

The subject of every thesis, with the full name of its author or authors, together with the written approval of it by the head of the department within which it lies, must be filed with the president of the University, on the official blank provided for the purpose, not later than December 15 of the year in which the degree is sought.

All undergraduate theses shall be made on paper of uniform size, 8½ by 11 inches, and of quality and weight equal to that of a sample in the president's office. Theses shall be typewritten or printed, neatly bound in black cloth, and shall be gilt-lettered on the first cover with the thesis title, name of author, degree sought, and year of graduation.

Completed theses must be submitted to the head of the department concerned, not later than the second Saturday before Commencement Day.

A copy of the thesis so prepared and accepted must be filed with the University not later than the Friday preceding Commencement Day.

## ADMISSION TO THE BAR

The regular Supreme Court examination for admission to the Bar is held on the first Tuesday in June of each year. Students are required to pass this examination before they can receive the degree or certificate mentioned below.

## DEGREES

The degree of Bachelor of Laws (LL. B.) will be conferred on all who, being at least twenty-one years of age and having met the requirements necessary for entrance for a degree, pass satisfactorily the examinations at the close of the Senior year, after having done at least that year's work in the College of Law at the University, and having presented a thesis acceptable to the Faculty.

The degree of Master of Laws will be conferred upon any one who has received the degree of Bachelor of Laws at this University, or other approved University or College, upon completing the studies of the Graduate year, and satisfactorily passing an examination therein, and presenting a satisfactory thesis, the subject of which has been chosen from the work included in the Graduate year.

## CERTIFICATES OF WORK DONE

Those who have completed the studies of this College, but have not complied with the requirements for a degree, will be given an official certificate, showing the work done, and signed by the President of the Board of Trustees, the President of the University, and the Dean of the College of Law.

No distinction is made between the candidates for the degree of LL. B. and other regular students while in attendance at this college. The two classes of students do the same work, recite together, take the same examinations, are held to the same standards of work and stand on the same footing for admission to the bar.

The distinction between the two classes of students consists entirely in the two following respects:



*First*—The standard of admission for candidates for a degree is higher than that for those who are not candidates for a degree.

*Second*—Candidates for degrees who have fulfilled all the entrance requirements and have completed the course of study in a satisfactory manner receive a diploma conferring the degree of LL. B. Regular students, who are not candidates for degrees, receive under similar circumstances a formal certificate of the completion of the course.

### SUGGESTIONS FOR PREPARATORY READING

In addition to the requirements for admission, it is earnestly recommended that every person who enters the College of Law shall first have a more thorough and careful preparation in English and American History than this College is now ready to require.

For such prospective students as are not able to study these subjects in a High School or Academy the following is suggested as an elementary course in History: Montgomery's English History, Fiske's or McMaster's or Johnson's United States History. In connection with these works, Civil Government, which is one of the required subjects, may be reviewed to great advantage.

Those who are able to pursue the subject further can derive profit from carefully looking up the various topics presented in the books above named, in any good encyclopedia. Bryce's American Commonwealth and Fiske's American Revolution and Critical Period of American History will prove of great value.

The remaining suggestions are made primarily to those who have been able to study English and American History to the degree already indicated, though in some cases the student may find it to his advantage to pursue these subjects farther, even without the full preparation above indicated. All those who have a good High School education, including American and English History, and are not able to obtain the advantages of a regular course in American and English History in a College or University are urged to continue their course of study before entering the law school by studying at least one of the following works upon English Constitutional History:

Walter Bagehot's English Constitution; Montague's Elements of English Constitutional History; Taswell-Langmead's English Constitutional History (Ashworth's Edition); Medley's Student's Manual of English Constitutional History (Second Edition); and one of the following works on English History: Green's Short History of the English People; S. R. Gardiner's Student's History of England; Oman's History of England; Goldwin Smith's United Kingdom; and at least one of the following books upon United States Constitutional History: Woodrow Wilson's Congressional Government; Judson Landon's Constitutional History and Government of the United States.

For those wishing to pursue the study of American Political History further recommendation is difficult on account of the wealth of material.

Channing's Student's History of the United States (new edition); Channing's United States of America; McLaughlin's History of the People of the United States; Goldwin Smith's outline of the Political History of the United States are suggested.

Students are also strongly urged to read upon the subject of the Civil Law at least the forty-fourth chapter of Gibbon's Decline and Fall of the Roman Empire and Howe's Studies in the Civil Law.

Such students as have pursued the course here suggested as far as possible will find that the work done at the Law School, especially in the first year, will be proportionately more profitable to themselves.



## UNIVERSITY COURSES SUITABLE FOR COLLATERAL STUDY

Nothing here said is intended to imply that this course of reading and study, helpful as it will be, is in any sense a substitute for a course in these subjects in a College or University. All who can should obtain the benefits of a college education before studying law.

For such as cannot, we suggest the advantage of attending a law school which is like this in close and vital connection with a great University. Strong courses in History, Political Science and Economics are offered at this University, which are open without extra charge to students in the College of Law, as they may elect, subject to the requirements for admission to such departments.

The following courses offered in the department of American History and Political Science will be found especially helpful to students in the College of Law:

History:—The general course in the political and constitutional history of the United States; an advanced course covering the Revolution, framing of the Constitution, and the formation and organization of the Government; an advanced course, covering Secession, Civil War and Reconstruction, 1850 to 1876.

Political Science:—The political institutions of the United States; the government of cities; public international law.

In English Political and Constitutional History the following course is of especial value:

Political and Constitutional History of England from earliest times to the present. Lectures, text books and assigned readings. Gardiner's *Student's History of England*. Three times a week for one year. Involves discussion of English legal history and institutions.

## GENERAL UNIVERSITY COURSES

Further attention is called to the great advantage of attending this College of Law, as its close and vital connection with the University affords the means of a liberal, practical and technical education. Students who are disposed to work faithfully and who desire to fit themselves for any special line of work may, at the same time that they are acquiring a technical knowledge of the law, supplement their general education by joining University classes, in departments which they may elect, subject to the requirements for admission to such departments, without extra charge except for laboratory work. This work may be selected from the courses in Civil, Mine, Mechanical, and Electrical Engineering, from the courses in Anatomy and Physiology, Economic Geology, etc. To the average practitioner there will come ten questions involving the principles of surveying or engineering to one of the constitutional law or English history. Not a day passes in the litigation of the courts but that numerous questions of Anatomy, Physiology, Surveying or Engineering arise to be decided. Particular attention, therefore, is called to the technical courses offered by the University, which will be open to those in the College of Law who are able to take them without interfering with the required law work. The following departments offer courses which will prove beneficial to those who have not had such training as would enable them to take more technical work: Botany, Physiology, Physics, Civil Engineering, Mine Engineering, Chemistry (Toxicology), Geology, Philosophy, English.

## METHOD OF INSTRUCTION IN LAW

The instruction offered the undergraduates includes a course of study covering three years of nine months each. It requires at least fifteen hours of class work per week for each class, and embraces all the elementary and practical studies necessary for admission to the Bar.

The purpose of the college is to furnish such legal training as will fit students for practice in any part of the country; and to impart an accurate knowledge of the principles of the law and to illustrate the application of these principles to the practical affairs of life—to teach students both to know and to apply the law.

The methods of instruction pursued in this college combine the advantages of all approved systems, yet the *text-book and recitation* system is mainly employed. It is sought to direct the attention of the student to the acquisition of a thorough knowledge of the fundamental principles of law and to aid him in gaining a clear and distinct apprehension of the outlines of each particular subject taught, and, ultimately, of the science of the law as a whole. As is well said by Professor Bascom (Introduction to Philosophy of English Literature), there are, in each department of knowledge, central facts and germinal principles. If we reach these early and well, the labors of acquisition are greatly lightened. They serve to explain to the mind, and to hold for the memory, those multitudinous minor facts which otherwise confuse one and burden the other. The ground is thus outlined; we know where to look for particulars; and these, as they come to us by direct search, or as incidents of growing knowledge, fall at once into their place and strengthen our general hold of truth.

This object, it is thought, is best attained by the method of instruction distinctively known as the *text-book and recitation* system. In this method of instruction, the students in each class are required to provide themselves with the text books prescribed; portions of the text are assigned from day to day, for careful study as the basis of the recitation at the next meeting of the class, when each student's understanding of the principles involved is thoroughly tested by questions; misapprehensions and errors are corrected before they become fixed in his mind; ambiguous and obscure statements in the text explained, discussed and illustrated; and such further assistance to a full and proper understanding of the subject is afforded by the instructor as he may be able to render. The discussions and expositions are informal and are so conducted as to relieve the student from embarrassment, strengthen his grasp of the subject, quicken his perception and develop his reasoning powers. During these recitations the students are not only permitted, but are invited and encouraged to ask questions pertinent to the matter under consideration; which questions are then carefully and fully answered by the instructor or deferred for further consideration, investigation and research by the students and the instructor. Few formal lectures are delivered, but the instructor seeks to get as near the student as may be in his effort to gain a clear conception of the subject in hand; and, both by exposition of the text and familiar conversational discussions, to remove his doubts and perplexities. And further to assist the student in his efforts to master the principles of law, and to illustrate their application, in practice, to the affairs of life, he is referred to, and required carefully to study, leading and well-considered cases in the Reports of the American and English courts.

It will be observed that the students in the First Year class are engaged, during the First Semester, exclusively with Elementary Law, using Blackstone and two American works topically. The entire field of study is thus carefully outlined and the minds of the students are thoroughly imbued with the general principles and prepared for the more elaborate expositions of the various subjects which follow in the course of study prescribed.

A recitation is one hour in length and the work in the College is so arranged that each class will have an average of at least three recitations each day.

## COURSE IN LAW

## FIRST YEAR

FIRST SEMESTER.		Credit hours	SECOND SEMESTER.		Credit Hours
Elementary Law (including Domestic Re-		15	Agency.....		2
lations) .....			Contracts .....		4
			Criminal Law.....		3
			Sales .....		2
			Torts.....		4
		15			15

## TEXT BOOKS.

*First Semester*—Elementary Law (Robinson, Walker, Tenth edition, and Blackstone).

*Second Semester*—Agency (Mechem); Contracts (Bishop); Criminal Law (Clark & Marshall); Sales (Tiedeman); Torts (Cooley).

## SECOND YEAR

Bailments .....	3	Construction of Contracts.....	2
Commercial Law .....	5	Evidence .....	2
Evidence .....	2	Partnership .....	2
Pleading .....	4	Pleading .....	2
Moot Court .....	1	Real Property .....	4
		Wills .....	2
		Moot Court .....	1
	15		15

## TEXT BOOKS.

*First Semester*—Bailments (Hale); Commercial Law (Tiedeman); Evidence (Greenleaf, Sixteenth edition); Pleading (Phillips and Kinkad's Selections).

*Second Semester*—Construction of Contracts (Jones); Partnerships (Parsons); Real Property (Tiedeman); Wills (Page).

## THIRD YEAR

Circuit and Supreme Court Practice.....	1	Corporations (Private) .....	2
Constitutional Law } .....	4	Corporations (Municipal), Negligence of.	3
International Law }		Ethics .....	2
Corporations (Private) .....	2	Federal Practice .....	2
Corporations (Municipal) .....	2	Mortgages } .....	2
Equity Jurisprudence .....	4	Suretyship }	
Probate Law .....	2	Trial Practice .....	2
Moot Court .....	1	Moot Court .....	1
	16		14

Thesis for graduation to count for two hours through second semester.

## TEXT BOOKS.

*First Semester*—Constitutional Law (Black); Private Corporations (Taylor); Municipal Corporations (Tiedeman); Equity Jurisprudence (Merwin); Probate Law (Whittaker's Probate Code).

*Second Semester*—Ethics (Sharswood); Negligence of Municipal Corporations (Jones); Suretyship (Baylies); Trial Practice (Kinkad).

## ADVANTAGES

## LOCATION

Attention is called to Columbus as a desirable place in which to study law. Here the Legislature meets; here are the Supreme Court, Circuit Court and four branches of the Common Pleas Court, in almost daily session throughout the



college year; the Probate Court, the County Commissioners, the City Court and the several Magistrates' Courts; also the U. S. Court and District Courts. All are easy of access from the College.

#### LIBRARIES

The following libraries are accessible to the student:

The Law Library of the College contains the Noble Law Library, the Emerson-McMillen Law Library, the Critchfield Law Library, four sets of the Ohio and the Ohio State Reports, and many other leading reports; in all, about 3,000 well selected volumes.

The University Library contains 40,000 volumes of very carefully selected books upon all subjects. This is quite complete in the more recent standard works upon history and political science, philosophy, etc. A good collection of the leading scientific, technical and literary magazines and journals is to be found here.

The State Law Library, of about 35,000 volumes, is the largest and most complete Law Library in the State. It contains complete sets of the English, Scotch, Irish, Canadian, United States, and State Reports, Statutes and Digests, as well as all the important text books and leading periodicals published. This library is located in the new State Supreme Court building.

The State Library, in the State House, is a library of general literature, history, science, biography, political and social science, philosophy, etc., comprising some 65,000 volumes. The leading magazines, journals, etc., are also to be found here.

The University Libraries are open from 7:30 a. m. to 9:30 p. m. during the five days in which the University is in session, and on Saturdays from 8 a. m. to 4 p. m. The State Law Library is open six days in the week, from about 8:30 a. m. to 5:30 p. m., with the exception of about an hour or an hour and a half at noon. The State Library is open six days in the week from 9 a. m. to 12 m., and from 2 p. m. to 5 p. m.; and when the Legislature is in session, from 7 p. m. to 9 p. m.

The City Library, with 30,000 volumes and a fine reading room, may also be used by students, under reasonable restrictions.

#### EXPENSES

Each undergraduate student of the University is required to pay an incidental fee of fifteen dollars a year, and in this College a tuition fee of forty-five dollars; a total of thirty dollars for each semester, which is payable at the beginning of each semester.

Graduate students are required to pay a fee of thirty dollars for the year.

A fee of five dollars (to cover the expenses of graduation, diplomas, etc.,) is charged to all who take the degree of Bachelor of Laws, and a fee of ten dollars is charged to those taking the degree of Master of Laws. These fees must be paid before the degrees are conferred.

Good boarding and lodging, convenient to the University, can be obtained at from \$3.50 to \$5.00 per week.

The text-books used in this College can be obtained at the University at students' prices. The University has no pecuniary interest in these books or the sale of them, and they are permitted to be sold here merely for the convenience of the students.

The books for the first year.....	\$43 50
For the second year.....	40 00
For the third year.....	36 00

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Total for three years..... \$119 50



Please to send names and addresses of law students and requests for printed matter to W. F. Hunter, Dean, 1032 Bryden Road, Columbus, Ohio, or to the Executive Office, Ohio State University, Columbus, Ohio.

### PRIZES

The Edward Thompson Company offers annually to the student writing the best essay on a legal subject selected by the Faculty of the College of Law, the second edition of the American and English Encyclopædia of Law, which consists of about thirty volumes; and Professor Kinkead offers, as a second prize, his work on Pleading.

### NEW LAW BUILDING

The Legislature, at its last session, made an appropriation for the erection of a building for the use of the College of Law. The work is in progress and it is expected that the building will be ready for occupancy during this year.

### LAW LITERARY SOCIETY

The William F. Hunter Society, composed of students in the College of Law, meets every two weeks for quiz-work, moot-court practice, and practice in speaking and debating.

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## THE COLLEGE OF PHARMACY

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The College of Pharmacy offers two courses of study:

A four years' course leading to the degree of Bachelor of Science in Pharmacy (B. Sc.).

A two years' course (not leading to a degree) for which a certificate is granted.

### THE EXPERIENCE REQUIREMENT

The Ohio Board of Pharmacy requires as a condition of registration as Pharmacist four years of practical experience and for registration as Assistant Pharmacist two years of practical experience. The time spent in this college is accepted in full as applying on this requirement.

### FOR ADMISSION

The following are the requirements for admission to the four-year course:

1. *Arithmetic, Descriptive and Physical Geography, English Grammar, and United States History.*

2. *English Composition and Rhetoric, and English Classics.*—Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of several brief essays, of which one will be upon a subject drawn from the applicant's observation or experience, and the others upon topics requiring a knowledge of the following books, or equivalents: Shakespeare's *Merchant of Venice*, *Julius Caesar* and *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Conciliation with the Colonies*; Macaulay's *Essays on Milton and Addison*; The Sir Roger de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*.

To meet the English requirement the schools should provide courses in composition-practice and courses in English classics extending side by side through the preparatory years.

In the courses in composition, pupils should be afforded regular and abundant practice in preparing narrative, descriptive, expository and argumentative themes, and should be familiarized with those principles of Rhetoric which are most helpful in composition, such as the principles of sentence-structure, outlining, paragraphing, and choice of words. Scott and Denney's *Composition-Rhetoric* is recommended as a guide. The study of specimens of bad English from a text-book is not recommended; in order to insure accuracy, a considerable amount of the written work of the pupils should be corrected by the teacher and revised and rewritten by the pupils themselves. Some of the composition-work may be based upon the reading prescribed above, but much of it should be based upon the observation and experience of the pupils.

In the course in English classics, pupils should read the prescribed books with sufficient care to become familiar with the plot, incidents, and characters of all of them and should also learn something of their authors and of their places in literary history. A few of these books, or portions of all of them, should be examined closely with reference to form, structure, method, language, and leading characteristics of style. The voluntary outside reading of additional books should be encouraged by the teacher. In connection with all of the reading it is recommended that the memorizing of notable passages of prose and poetry be required.

3. *Algebra*—Taylor's Academic or equivalent.
4. *Botany*—Kellerman's Elementary Botany and Spring Flora or equivalent.
5. *Civil Government*—Fiske or Thorpe preferred.  
Or History—Myers's *General History*.
6. *Geometry, Plane and Solid*—Venable, White, Wentworth, Wells, or any other reputable book.

7. *Latin*—Pronunciation (the Roman Method); Grammar (an exact knowledge of the inflections is essential); Cæsar, the first three books of the *De Bello Gallico*.

Or *German*—Joynes-Meissner's or Thomas's Grammar is recommended. The essentials in these grammars should have been mastered thoroughly, i. e., declensions of nouns and adjectives, pronouns, comparison of adjectives, prepositions, regular and irregular verbs and essentials of syntax.

The following books or their equivalents must have been read (not less than 600 pages.) Joynes's or Whitney's Reader; Hillern's *Höher als die Kirche*; Riehl's *Der Fluch der Schönheit*; Freytag's *Die Verlorne Handschrift*; Gerstäcker *Irrfahrten*.

For the present, the *German* required for admission may be begun at the University, but without University credits.

8. *Physics*—Carhart and Chute, Gage, Avery, or Appleton.

#### TO SPECIAL STUDIES

See page 60.

#### TO ADVANCED STANDING

See page 61.

## OUTLINE OF THE COURSE IN PHARMACY

NOTE—The figure in parenthesis following the name of each study indicates the number of that study in its department. (See Departments of the University.)

### FIRST YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Chemistry (7)	5.	Chemistry (7)	5.	Chemistry (12)	4.
Inorganic.		Inorganic.		Qualitative Analysis.	
Latin (1)	4.	Latin (1)	4.	Latin (1)	4.
Pharmaceutical.		Pharmaceutical.		Pharmaceutical.	
or		or		or	
German (1)	4.	German (1)	4.	German (1)	4.
Elementary.		Elementary.		Elementary.	
Mathematics (14)	5.	Mathematics (15) (16)	5.	Mathematics (17)	5.
Plane Trigonometry.		Analytical Trigonometry.		Plane Analytics.	
Rhetoric (1) and (21)	3.	Rhetoric (1) and (21)	3.	Rhetoric (1) and (21)	3.
Composition.		Composition.		Composition.	
Cadet Service (Men).		Cadet Service (Men).		Cadet Service (Men).	
Hygiene and Physical		Hygiene and Physical		Hygiene and Physical	
Training (Women).		Training (Women).		Training (Women).	

### SECOND YEAR

Botany (3)	4.	Botany (4)	2.	Chemistry (20)	4.
Systematic, Physiological.		Medical.		Laboratory.	
Chemistry (20)	4.	Chemistry (20)	4.	German (2)	2.
Laboratory.		Laboratory.		Scientific Reading.	
German (2)	2.	German (2)	2.	Pharmacy (8)	5.
Scientific Reading.		Scientific Reading.		Dispensatories, etc.	
Pharmacy (6)	3.	Pharmacy (7)	5.	Physics (11)	3.
General Processes.		U. S. Pharmacopoeia.		General Physics.	
Physics (11)	3.	Physics (11)	3.	Metallurgy (2)	3.
General Physics.		General Physics.		Mineralogy.	
Chemistry (21)	2.	Chemistry (21)	2.	Chemistry (21)	2.
Advanced Inorganic		Advanced Inorganic		Advanced Inorganic	
and Physical.		and Physical.		and Physical.	
Cadet Service (Men).		Cadet Service (Men).		Cadet Service (Men).	
Hygiene and Physical		Hygiene and Physical		Hygiene and Physical	
Training (Women).		Training (Women).		Training (Women).	

### THIRD YEAR

Pharmacy (9)	5.	Pharmacy (10)	5.	Pharmacy (11)	5.
General Processes.		Prescriptions.		Dispensatories, etc.	
Pharmacy (12)	3.	Pharmacy (13)	3.	Pharmacy (14)	3.
Materia Medica.		Materia Medica.		Mat. Medica and Thera.	
Physiology (1)		Physiology (1)	3.	Physiology (1)	3.
Human Anatomy.		Physiology.		Physiology.	
		Physiology (8)	2.	Physiology (5)	2.
		Bacteriology.		Microscopy.	
General Chemistry (8)	5.	General Chemistry (9)	5.	General Chemistry (9)	5.
Organic.		Laboratory.		Laboratory.	

### FOURTH YEAR

Geology (2)	5.	Geology (6)	3.	General Chemistry (11)	4.
General.		Economic.		Toxicology.	
Pharmacy (15)	5.	Pharmacy (16)	5.	Pharmacy (17)	5.
Assaying.		General.		General.	

Elective, eight, or, by special permission of the Professor of Pharmacy, nine hours through the year—five hours of which must be chemistry.

## THESIS

As a requisite for graduation, each candidate must present an acceptable thesis embodying the results of special study and research. The subject must be within the field of Pharmacy, and must be announced to the President of the University (dependent upon the written approval of the proper authorities) not later than the fifteenth day of December of the fourth year of the Course. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

## SHORT COURSE IN PHARMACY

This course is arranged for students who wish to prepare themselves in as short a time as possible for the duties of the dispensing pharmacist. It is also possible for students to enter this course who cannot meet the entrance requirements of the long course. Students who complete the work satisfactorily will have no trouble in passing the examination given by the State Board of Pharmacy.

The greatest amount of time is devoted to Chemistry and Pharmacy, both of which are studied throughout the course. The student also acquires sufficient knowledge of Latin to enable him to understand pharmaceutical and medical terms. Physics, Physiology and Botany receive due attention.

On the satisfactory completion of this course the student is granted a certificate of "Pharmaceutical Chemist."

## ADMISSION TO THE SHORT COURSE IN PHARMACY

Candidates for admission who are less than twenty-one years of age must be prepared in the common English branches. Teachers' certificates (in force), or credentials from approved schools, will be accepted in lieu of an examination.

## OUTLINE OF THE SHORT COURSE IN PHARMACY

NOTE—The figure in parenthesis following the name of each study indicates the number of the study in its department. See Departments of the University.

## FIRST YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Chemistry (7)	5.	Chemistry (7)	5.	Botany (1)	5.
Inorganic.		Inorganic.		Elementary.	
Latin (1)	4.	Latin (1)	4.	Chemistry (12)	4.
Pharmaceutical.		Pharmaceutical.		Qualitative Analysis.	
Physics (1)	5.	Physics (1)	5.	Latin (1)	4.
Elementary.		Elementary.		Pharmaceutical.	
Pharmacy (6)	3.	Pharmacy (7)	5.	Pharmacy (8)	5.
General Processes.		U. S. Pharmacopœia.		Dispensatories, etc.	
Cadet Service (men).		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical		Hygiene and Physical		Hygiene and Physical	
Training (women).		Training (women).		Training (women).	



## SECOND YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Botany (3)	4.	Botany (4)	2.	Chemistry (11)	4.
Systematic, Phys.		Medical.		Toxicology.	
Chemistry (8)	5.	Chemistry (22)	5.	Chemistry (17)	4.
Organic.		Organic.		Inorganic Preparations.	
Pharmacy (9)	5.	Pharmacy (10)	5.	Pharmacy (11)	5.
Phar. Chemistry.		Prescription Practice.		Dispensing Practice.	
				Physiology (1)	3.
				Physiology.	
Physiology (1)	3.	Physiology (1)	3.	Physiology (5)	2.
Human Anatomy.		Physiology.		Microscopy.	
		Physiology (8)	2.		
		Bacteriology.			
Cadet Service (men).		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical		Hygiene and Physical		Hygiene and Physical	
Training (women).		Training (women).		Training (women).	

## THE COLLEGE OF VETERINARY MEDICINE

The College of Veterinary Medicine offers a three-year graded course of study leading to the degree of Doctor of Veterinary Medicine, or to the certificate of Veterinary Surgeon, according to the thoroughness of the requirements for admission.

## FOR ADMISSION

The following are the requirements:

I. For applicants for certificates of Veterinary Surgeon: *Arithmetic, Geography and Grammar.*

II. For applicants who intend to become candidates for the degree of Doctor of Veterinary Medicine:

1. *Arithmetic, Grammar, and Descriptive and Physical Geography.*
2. *English Composition and Rhetoric*—Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of two essays of about two hundred words each. The first essay will be upon a subject drawn from the candidate's observation or experience. The second essay will be upon a subject drawn from a list of classics which will be furnished on application.
3. *History*—History of the United States, Johnson preferred.
4. *Latin or German*—One year.
5. *Physics*—Gage, Carhart and Chute, Avery, or Appleton.
6. *Botany*—Kellerman's Elementary Botany and Spring Flora or equivalent.

## OUTLINE OF THE COURSE IN VETERINARY MEDICINE

NOTE—The figure in parenthesis following the name of each study indicates the number of the study in its department. See Departments of the University.

### FIRST YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Agr'l Chemistry (1)	5.	Agr'l Chemistry (8)	5.	Agr'l Chemistry (9)	5.
Principles.		Organic.		Applications.	
Physiology (1)	3.	Physiology (1)	3.	Physiology (1)	3.
Human Anatomy.		Physiology.		Physiology.	
Physiology (4)	5.	Physiology (4)	5.	Physiology (4)	5.
Histology.		Histology.		Phys. Chemistry.	
Veterinary Medicine (11)	5.	Veterinary Medicine (12)	5.	Veterinary Medicine (13)	5.
Anatomy.		Anatomy.		Anatomy.	
Cadet Service.		Cadet Service.			

### SECOND YEAR

Agriculture (8)	4.	Agriculture (9)	4.	Agriculture (10)	4.
Breeds of Live Stock.		Stock Breeding.		Stock Feeding and Hygiene.	
Pharmacy (12)	5.	Pharmacy (13)	5.	Pharmacy (18)	5.
Materia Medica.		Materia Medica.		Laboratory.	
Veterinary Medicine (14)	4.	Veterinary Medicine (15)	3.	Veterinary Medicine (16)	3.
General Pathology.		Theory and Practice.		Theory and Practice.	
Zoology (8)	1.	Veterinary Medicine (18)	3.	Veterinary Medicine (18)	3.
Helminthology.		Surgical Diseases.		Surgical Diseases.	
Veterinary Medicine (19)	3.	Veterinary Medicine (19)	3.	Veterinary Medicine (19)	3.
Clinic.		Clinic.		Clinic.	
Veterinary Medicine (24)	3.	Veterinary Medicine (34)	3.	Veterinary Medicine (34)	3.
General Surgery.		Pathology Laboratory.		Pathology Laboratory.	
Cadet Service.		Cadet Service.		Cadet Service.	

### THIRD YEAR

Veterinary Medicine (20)	3.	Veterinary Medicine (21)	3.	Veterinary Medicine (22)	3.
Theory and Practice.		Theory and Practice.		Therapeutics.	
Veterinary Medicine (19)	3.	Veterinary Medicine (25)	3.	Veterinary Medicine (21)	3.
Clinic.		Practice in Operating.		Theory and Practice.	
Veterinary Medicine (18)	3.	Veterinary Medicine (19)	3.	Veterinary Medicine (19)	3.
Surgical Diseases.		Clinic.		Clinic.	
Agriculture (18)	1.	Veterinary Medicine (27)	4.	Veterinary Medicine (18)	3.
Milk Inspection.		Meat Inspection.		Surgical Diseases.	
Veterinary Medicine (31)	3.	Physiology (7)	3.	Veterinary Medicine (33)	2.
Canine Diseases.		Bacteriology.		Ophthalmology.	
Veterinary Medicine (26)	3.	Veterinary Medicine (23)	3.	Veterinary Medicine (32)	3.
Horse Shoeing.		Obstetrics.		Canine Diseases.	
Veterinary Medicine (36)	3.	Thesis	2.	Thesis	2.
Pathology Laboratory.					

### THESIS

As a requisite for graduation candidates for the degree of D. V. M. must present an acceptable thesis embodying the results of a special research. The subject must be announced to the President of the University (dependent upon the written approval of the head of the department in which it lies) not later than the fifteenth day of December of the third year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

Candidates for a Certificate of Veterinary Surgeon are not required to present a thesis.



## Departments of the University





# Departments of the University

1901-1902

NOTE—The subjects taught in the Departments of the University are indexed at the close of this volume.

## DEPARTMENT OF AGRICULTURE.

[TOWNSHEND HALL]

*Professor Hunt, Professor Gibbs, Professor Decker, Mr. Herrick, Mr. Ruhlen*

5. **DAIRY FARMING.** Lectures twice a week upon breeds, and upon feeding, breeding and selecting dairy stock; equipment and management of dairy farms. Practicum once a week in scoring and judging live stock, writing pedigrees, and calculating feeding standards. Second term.
6. **BUTTER MAKING AND CHEESE MAKING.** Practice in running separators, churning and working butter, etc., making cheese and testing and pasteurizing milk. Four half days each week. Second term.
7. **BUTTER MAKING AND CHEESE MAKING.** Lectures and recitations. Two hours each week. Second term.
8. **BREEDS OF LIVE STOCK.** Lectures and recitations three times a week upon the history, characteristics, adaptation, care and management of the different breeds of domestic animals. Practicum once a week in scoring and judging live stock. First term.
9. **PRINCIPLES OF BREEDING.** Lectures and recitations three times a week upon laws of heredity and their practical applications. Practicum once a week in scoring and judging live stock, and in writing and tracing pedigrees. Second term.
10. **STOCK FEEDING AND HYGIENE.** Lectures and recitations three times a week upon the laws of nutrition, the character of food stuffs, the relation of the food to the animals, and the kind and quantity of food to produce given effects. Practicum once a week in calculating digestibles, nutritive ratios and feeding standards. Third term.
11. **FARM EQUIPMENT.** Lectures and recitations three times a week upon selecting, planning and equipping farms; planning and erecting farm buildings and fences; building roads; farm vehicles and machinery; power, water and drainage. Practicum once a week in drawing plans of farms and farm buildings; leveling and laying drains; dynamometer tests of wagons and farm implements. First term.
12. **SOILS.** Lectures and recitations three times a week upon the origin, formation, kinds, and physical properties of soils, and their improvement by cultivation, fertilization, drainage, and irrigation. Practicum once a week in laboratory testing physical properties of several soils, determining the relation of soils to heat, moisture, air, and fertilizers, and making mechanical analysis. Second term.
13. **FARM CROPS.** Lectures and recitations three times a week upon the history, production, marketing, cultivation, and harvesting of farm crops. Practicum once a week with growing and dried specimens of farm crops, including grasses, clovers, and other forage crops. Third term.

14. **ANIMAL MECHANICS AND EXTERIOR.** Lectures and recitations three times a week upon animal mechanics, proportions, and the relation of the latter to specific uses. Practicum once a week in measuring animals and testing the value of given measurements for given purposes. First term.
15. **BUTTER MAKING AND CHEESE MAKING.** Lectures twice a week. Laboratory practice twice each week. This course is the same as courses 6 and 7 except that less laboratory practice is afforded. Second term.
16. **HISTORY OF AGRICULTURE AND RURAL ECONOMICS.** Lectures and recitations upon the history of agriculture; present agricultural methods in various countries; cost and relative profits of various farm operations and systems. Four times a week. Third term.
17. **MILK SANITATION.** Three times a week. First term. Lectures on and laboratory practice in what constitutes pure dairy products.
18. **STOCK JUDGING AND MANAGEMENT.** Lectures and recitations twice a week. Practicums twice a week. Second term.
19. **AGRONOMY.** Lectures and recitations twice a week on physical properties of soils; the relation of soils to heat, air and moisture; the effect of fertilizers on soil structure and fertility; consideration of practical methods of tillage as effecting crop producing power of the soil. Laboratory and field experiments four hours each week. First term. This course must be preceded by course 12.
20. **AGRONOMY.** Lectures and recitations three times a week on: (a) The effect of the climate, soil, and markets on the distribution and adaptation of farm crops in the United States. (b) The best method of crop production, including a careful study of the details of field experimentation as set forth in experiment station bulletins and reports and the publications of the United States Department of Agriculture. (c) The consumption of farm crops. Practicum two hours each week. Second term. This course must be preceded by course 13.
21. **RURAL ENGINEERING.** Lectures and recitations twice a week on: (a) Laying out the farm, including location of buildings and works; division of the farm into fields and yards, and the survey and measurement of the same. (b) Construction of buildings and works, including water supply, drains, sewage system, and roads. (c) The construction and use of farm machinery, including the application of mechanical principles in its structure and operation. Special attention will be given to comparisons and tests of various makes and kinds of farm machinery. Practicum four hours each week. Third term. This course must be preceded by course 11.
22. **BUTTER AND CHEESE MAKING.** Lectures and laboratory work four times a week. First term.
25. **BUTTER AND CHEESE MAKING.** Lectures and laboratory work four times a week. Third term.

#### DEPARTMENT OF AGRICULTURAL CHEMISTRY.

[TOWNSHEND HALL, Rooms 29, 35, 34 and 30]

*Professor Weber, Mr. Vinson*

1. **PRINCIPLES OF CHEMISTRY AND CHEMICAL NOMENCLATURE.** Lectures and textbooks for three or four weeks, five times a week; then lectures twice a week on Chemistry of Non-metals, and laboratory practice three times a week. First term.

4. **LABORATORY.** Analysis of fertilizers, feed-stuffs, dairy products, fruits, vegetables, alcoholic liquors, etc. Five laboratory periods a week through the year.
6. **LABORATORY.** Five or three times a week through the year. Analysis of water, soils, fats, oils, grain, tea, coffee, etc.
7. **CHEMISTRY OF MILK AND MILK TESTING.** Twice a week. Dairy Course.
8. **ORGANIC CHEMISTRY.** Lectures twice a week; laboratory practice three times a week. Second term.
9. **APPLICATION OF CHEMISTRY TO AGRICULTURE.** Lectures twice a week; laboratory three times a week. Third term.

## DEPARTMENT OF AMERICAN HISTORY AND POLITICAL SCIENCE.

[UNIVERSITY HALL, Rooms 27, 48 and 18]

*Professor Knight, Assistant Professor T. C. Smith, Mr. Tuttle*

## I. AMERICAN HISTORY.

Course 1 must precede all other courses in American History. All students intending to take advanced courses in American History should take English History (European History 4) as early as possible in their course.

1. **POLITICAL HISTORY OF THE UNITED STATES.** Lectures, text-books, prescribed readings and topical reports. Hart's Formation of the Union; Wilson's Division and Reunion. Four times a week, first term, and twice a week, second term; or twice a week, second term, and four times a week, third term. Of students who are required to take this course, those whose names begin with the letters from A to K will begin it in the first term as Course 1a; others will begin it the second term as Course 1b. Two sections.
2. **AMERICAN COLONIAL HISTORY.** The political and social development of the American Colonies, the growth of the colonial self-government and of the idea of colonial union. Lectures, assigned readings, and special reports. Three times a week, first and second terms.
3. **CONSTITUTIONAL AND POLITICAL HISTORY OF THE UNITED STATES 1776-1800.** Lectures, assigned readings and special reports. Three times a week, third term.
4. **POLITICAL HISTORY OF SLAVERY TO 1850.** Lectures, assigned readings and special reports. Three times a week, first term.  
[Not offered in 1901-1902.]
5. **SECESSION. CIVIL WAR AND RECONSTRUCTION. 1850-1876.** Lectures, assigned readings and special reports. Three times a week, second term.  
[Not offered in 1901-1902.]
6. **AMERICAN DIPLOMATIC HISTORY.** History of the Foreign Relations, policy and treaties of the United States. Lectures and special investigations. Three times a week, third term.  
[Not offered in 1901-1902.]
7. **HISTORY OF AMERICAN POLITICAL PARTIES, 1600-1900.** Their origins, territorial and social elements, economic bases, organization, etc. Lectures, assigned readings, and special reports. Three times a week, three terms.
8. **HISTORICAL MATERIAL AND ITS USE.** Lectures on elementary historical bibliography and the use of American historical documents, with practical exercises. Especially designed for students intending to do advanced work in American history and political institutions. Once a week, first and second terms.



All students electing their Major Study in the department of American History and Political Science are expected to take this course in their third year. Open as elective to others on permission of the head of the department.

9. **TOPICAL RESEARCH IN AMERICAN HISTORY.** The preparation of special topics on the basis of the work of Course 8. Some special period of American History will be taken up each year. Once a week, third term.  
Open to those who have had Course 8. All students electing their major study in the department of American History and Political Science are expected to take this course in their third year.
10. **SEMINARY FOR RESEARCH WORK IN AMERICAN HISTORY.** Two hours a week (at one meeting), three terms.  
All fourth year students electing their Major Study in the department of American History and Political Science must take this course, or the Seminary in Political Science (Political Science 11). Open, as elective, to other students, graduate and advanced undergraduate, on permission of the instructor.
11. **COURSE FOR TEACHERS.** A course in theories and methods of teaching American history, designed for those preparing themselves as teachers. Once a week, third term.
12. **GRADUATE SEMINARY IN AMERICAN HISTORY AND INSTITUTIONS.** Some limited field will be made the subject of investigation each year. Two hours a week (at one meeting). Three terms. Open only to graduate students.

## II. POLITICAL SCIENCE.

All Courses in Political Science must be preceded by American History 1.

1. **POLITICAL INSTITUTIONS OF THE UNITED STATES.** Origin, nature and workings of the political institutions of the United States. Lectures and recitations. Three times a week. First term.
2. **POLITICAL INSTITUTIONS OF EUROPE.** A study of the political institutions of the leading European countries. Lectures, collateral readings and special reports. Three times a week. Second term.  
Course 2 must be preceded by Course 1.
3. **COMPARATIVE POLITICS.** A study of the practical workings of self-government in United States and Europe. Lectures and special reports. Three times a week. Third term.  
Course 3 must be preceded by Courses 1 and 2.
4. **INTERNATIONAL LAW.** A study of public international law. Lawrence's *Principles of International Law*. Lectures and text-book. Twice a week. First and second terms.
5. **HISTORY OF TREATIES AND MODERN DIPLOMACY.** A study of the leading treaties of modern times with special reference to their bearing on international law. Accompanied by collateral reading and special reports. Twice a week. Third term.  
Course 5 must be preceded by Course 4.
6. **GOVERNMENT OF DEPENDENCIES.** A study of the government of dependencies by the home country. Lectures, assigned readings and special reports. Twice a week. First term.
7. **COLONIAL INSTITUTIONS.** A study of local institutions in leading colonies and of the development of colonial self-government. Lectures and assigned readings. Twice a week. Second term.  
Course 7 must be preceded by Course 6.

8. **MUNICIPAL GOVERNMENT.** Lectures, collateral readings and special reports. A study of the development and status of modern municipalities, and a comparative study of recent American municipal charters. Twice a week. Third term. This Course forms a good sequent to Courses 6 and 7, but is not dependent upon them.
9. **ORIGIN, HISTORY AND DEVELOPMENT OF THE UNITED STATES CONSTITUTION.** Lectures and special reports. Twice a week, three terms.
10. **THE THEORY OF THE STATE.** Lectures, readings and reports. Twice a week, three terms.
11. **SEMINARY FOR RESEARCH WORK IN POLITICAL SCIENCE AND INSTITUTIONS.** Two hours a week (at one meeting), three terms.  
All fourth year students, who elect their Major Study in the department of American History and Political Science must take this course, or the Seminary in American History (American History 10). Open, as elective, to other students, graduate and advanced undergraduate, on permission of the instructor.

## DEPARTMENT OF ANATOMY AND PHYSIOLOGY

[BIOLOGICAL HALL, Rooms 12 and 20]

*Professor Bleile, Assistant Professor Morrey, Mr. Dresbach*

1. **HUMAN ANATOMY AND PHYSIOLOGY.** Lectures, recitations and laboratory work three times a week. First, second and third terms. This course must be preceded or accompanied by a course in chemistry.
2. **GENERAL PHYSIOLOGY.** Lectures recitations and demonstrations. Three times a week. Third term.
3. **CHEMICAL PHYSIOLOGY.** Three times a week. Third term.
4. **HISTOLOGY AND HISTO-CHEMISTRY.** Five times a week through the year. This course must be preceded by, or accompanied with, a course in chemistry.
5. **MICROSCOPY AND URINARY ANALYSIS.** Lectures and laboratory work. Twice a week. Third term.
6. **BACTERIA,** in their relation to Milk, Butter and Cheese. Lectures and laboratory work. Twice a week. Second term.
7. **BACTERIOLOGY.** Three times a week. Second term.
8. **BACTERIOLOGY.** One lecture, one laboratory period, a week. Second term.
9. **PHYSIOLOGICAL LABORATORY.** Three times a week, three terms.
10. **BACTERIOLOGY.** Lectures and laboratory work on the general facts concerning bacteria and their relation to life processes followed by lectures on their special application to cooking and other domestic affairs. Twice a week. Third term.
11. **PHYSIOLOGICAL LABORATORY.** Five times a week, three terms.
12. **BACTERIOLOGY.** Twice a week, three terms.
13. **BACTERIOLOGY.** Three times a week, three terms.

## DEPARTMENT OF ARCHITECTURE AND DRAWING

[HAYES HALL, Rooms 22, 24, 37]

*Professor Bradford, Associate Professor French, Mr. Lewis, Mr. Martin, Mr. Vosskuehler, Mr. Chamberlain*

## I. ARCHITECTURE

4. **SPECIFICATIONS.** Lectures and practice in preparing specifications for architectural structures. Two periods a week. Second term.
5. **DECORATION AND ORNAMENT.** Lectures on the different styles of carved ornament and decorative color. The practice part of this subject will be incorporated in the Clay Modeling and Designing. Three periods a week. First term.
6. **ESTIMATES AND SUPERINTENDENCE.** Lectures and practice in preparing estimates for structures designed in Courses 8, 11, 12 and 13, and the duties of superintendence. Four periods a week. Third term.
7. **HEATING, VENTILATING AND PLUMBING.** Lectures and experimental work. Lectures on the principles and methods of heating and ventilating and of sanitary plumbing. Experimental work is carried on with the heating and ventilating plants in the different University buildings. Five periods a week. Second term.
8. **DESIGNING.** Lectures and Practice. Steel skeleton and fire proof construction. Five periods a week. Second term.
9. **HISTORY OF ARCHITECTURE.** Lectures illustrated by lantern slides. Three periods a week. First term.
10. Same as 9. Second term.
11. Same as 10. Third term.
12. **ARCHITECTURAL DRAWING.** Drawing architectural ornament, details of orders and styles, with the special object of impressing upon the student's mind the architectural characteristics considered in Course 9. Two periods a week. First term.
13. Same as 12. Second term.
14. Same as 13. Third term.
15. **DESIGNING.** Lectures and practice in designing structures adapted to modern requirements. Four periods a week. First term.
16. **DESIGNING.** Lectures and practice. Two periods a week. Second term.
17. **DESIGNING.** Lectures and practice. Four periods a week. Third term.
18. **DESIGNING.** Four periods a week. First term.
19. **DESIGNING.** Four periods a week. Third term.
20. **THESIS.** Original design, to be accompanied with written description, specifications and estimate. Five periods a week. Third term.

## II. DRAWING

1. **FREE HAND DRAWING.** Practice and occasional lectures. Pencil, charcoal, pen and water-color drawing from copies, models and plaster casts. One or two drawing periods a week. First, second and third terms.
2. **LETTERING.** Practice and occasional lectures. Two or three drawing periods a week. Third term. This course must be preceded by Course 1.

3. **MECHANICAL DRAWING.** Lectures or recitations one period a week; practice two periods a week; subjects: Orthographic, Isometric and Oblique Projection and elementary Working Drawings. First term. Lectures or recitations two periods a week, practice one period a week or three periods a week; subject: Descriptive Geometry. Second term. Lectures or recitations, one period a week, practice two periods a week or four periods a week; subject: Shades, Shadows and Perspective. Third term. This course must be preceded by Course 2.
4. **DRAUGHTING AND BLUE-PRINTING.** Practice and occasional lectures. Three periods a week. Second term. This course must be preceded by the first term of Course 3.
5. **TECHNICAL DRAWING.** Lectures and practice. Rules and methods for making working drawings in machine design, to correctly represent form and dimensions for shop use, and for tracing and blue-printing the same. Three periods a week. First term. This course must be preceded by Courses 2 and 3.
6. **PHOTOGRAPHY.** Lectures and practice. Lectures: Optics of Photography, Chemistry of Photography, Exposing and Developing, Printing, Lantern Slides, Orthochromatic Photography and some of the applications of Photography. Practice in outdoor, interior, instantaneous and flashlight photography, copying, lantern slides and printing. Two periods a week. First or Third term.
8. **MECHANICAL DRAWING.** Lectures and practice. Geometric and Projection Drawing. Two periods a week. First and Second terms.
10. **MECHANICAL DRAWING.** Lectures and practice. Elementary mechanical drawings, lettering and working drawings. Two periods a week. First term.
11. **MECHANICAL DRAWING.** Lectures and practice. Five periods a week. Third Term.
12. **CLAY MODELING.** Modeling in clay and casting in plaster ornamental forms from designs, photographs, nature and original designs. Two periods a week. Second and Third terms. This course must be preceded by Course 1.
14. **PEN DRAWING.** Two periods a week. First term. This course must be preceded by Course 1.
15. **TECHNICAL DRAWING.** Lectures and practice. House planning. Two periods a week. Second and Third terms.
16. **TECHNICAL DRAWING.** Lectures and practice. Designing, preparing working drawings and specifications for structures related to agriculture. Three periods a week. Third term.
17. **ART.** Lectures on color standards, color theory, color harmony, color appearances, tone and graduation, atmosphere and values. Practice in color work, either water or oil color. First term. Lectures illustrated by lantern slides. Must be preceded by Course 1 in Drawing, or its equivalent.
18. **ART.** Lectures on objects of art, ideas and subjects, style and individuality, schools of art, great artists including old and modern masters. Illustrated by lantern slides. Practice in water or oil painting from still life. Second term.
19. **ART.** Lectures will be a continuation of second term's work and including sculpture and the master sculptors. Illustrated by lantern slides. Practice in water or oil painting from life and nature or clay modeling. Third term. The above is to be offered as an elective for two or three hours, as follows: Lectures for one hour and practice for two or four hours.



## DEPARTMENT OF ASTRONOMY.

[THE EMERSON McMILLIN OBSERVATORY]

*Professor H. C. Lord, Director of the Observatory,*  
*Mr. J. Warren Smith, Special Lecturer on Meteorology,*  
*Mr. Danforth E. Ball, Emerson McMillen Fellow.*

1. **GENERAL ASTRONOMY.** Lectures and recitations on the general principles of Astronomy. Non-mathematical. Text-book, Young's General Astronomy. Twice a week, three terms.
2. **ASTRONOMY, GEODESY AND LEAST SQUARES.** Lectures on practical Astronomy, supplemented by practice with the instruments of the Emerson McMillin Observatory. Text-book, Doolittle. Three times a week, three terms.
3. **METEOROLOGY.** Lectures on practical meteorology, supplemented by laboratory work in map and chart making, and regular observations with the instruments in use by the Weather Bureau. Text-book, Waldo, with daily weather maps issued by the Bureau. Twice a week. Third term.
4. **ADVANCED ASTRONOMY.** Lectures, Reading and Laboratory work from 3 to 5 hours a week, three terms. Courses will be offered in Theoretical Astronomy or Astrophysics, as students may elect. Students must have had the calculus.

## DEPARTMENT OF BOTANY

[BOTANICAL HALL.]

*Professor Kellerman, Assistant Professor Schaffner, Mr. Tyler, Florist Jennings,*  
*Miss Burr, Mr. Fischer.*

1. **ELEMENTARY BOTANY.** Lectures, recitations and field work. Text-book: Kellerman's *Elementary Botany* and *Spring Flora*. Must precede all other courses in this department except course 9. Five times a week. Third term.
3. **SYSTEMATIC AND PHYSIOLOGICAL BOTANY.** Credit four hours. First term. This course deals more fully with Ecology and Physiology, also Morphology and Classification. The plant as a living organism is the main point of view. The students are required to add to their herbariums begun in the Spring term and thus obtain a full set of the native medicinal plants. About half of the time of the course is devoted to observation in the field, and laboratory work. The latter gives a thorough drill in the use of the microscope and modern methods in technique. It aims to acquaint the student with the vegetable cell and tissues and their development and functions.
4. **MEDICAL BOTANY.** Credit two hours. Second term. This course is devoted exclusively to laboratory study of the medicinal plants and vegetable products used in medicine. Maisch's *Organic Materia Medica* is mainly followed.
6. **PHYSIOLOGICAL BOTANY.** Lectures and recitations three times a week and laboratory and field work twice a week. Credit five hours. First term. Text-book, Coulter's *Plant Studies*.

7. **PHYSIOLOGICAL AND ECONOMICAL BOTANY.** Lectures and recitations three times a week and laboratory twice a week. Credit five hours. Second term. Text-book, Coulter's Plant Studies. This course is, in part, a continuation of Course 9, but the latter half of the term is devoted to a botanical study of economic plants and the vegetable products of commerce.
8. **VEGETABLE PATHOLOGY.** Lectures and recitations three times a week. Laboratory and field work twice a week. Credit five hours. Third term. Text-book, Massee's Plant Diseases. The diseases of plants due to inorganic causes are briefly studied, but the main part of the course is devoted to a study of the parasitic fungi most destructive to cultivated plants. The means of their prevention forms the last part of the course. The laboratory and field work deals mainly with the commonest and most injurious parasitic fungi. Each student takes up the latter part of the term some economic subject or group of parasites for special study.
9. **DENDROLOGY.** Lectures and field work. Credit two hours. First term. Kellerman's Forest Trees of Ohio and various reference books are used. The native trees are studied and illustrative collections made.
10. **DENDROLOGY.** Laboratory work and special investigations on the structure and diseases of timber. Credit two hours. Second term.
11. **LABORATORY WORK.** Special investigation in Economic Botany and Vegetable Pathology. First, second and third terms. Credit two to five hours.
12. **LABORATORY WORK.** In this course the student undertakes special investigations on medicinal plants, poisonous plants, adulterations, etc. Credit two to five hours.
21. **ECOLOGY.** Three times a week, first term. Numbers 21, 22 and 23 form a continuous course of study throughout the year, designed for students in General Science, Arts and Philosophy; two lectures or recitations and one laboratory period per week. Coulter's "Plant Relations" is used the first term and his "Plant Structures" and Department reference books the remainder of the year. Besides the general work in laboratory, lecture room and field, each student is assigned a special subject in ecology; occasional reports on current botanical literature are also required.
22. **MORPHOLOGY AND PHYSIOLOGY.** Credit three hours. Second term.
23. **SYSTEMATIC BOTANY.** Credit three hours. Third term.
24. **LABORATORY AND FIELD WORK.** Credit two or three hours. Three terms.
25. **LABORATORY WORK IN HISTOLOGY AND PHYSIOLOGY.** Credit three to five hours. Three terms.
26. **ADVANCED LABORATORY WORK IN HISTOLOGY AND MICROTECHNIQUE.** Credit five hours. Three terms.
27. **LABORATORY AND FIELD WORK IN SYSTEMATIC BOTANY.** Credit three to five hours. Three terms.
28. **RESEARCH WORK IN SYSTEMATIC BOTANY.** Credit five hours. Three terms.
29. **RESEARCH WORK IN MORPHOLOGY AND PHYSIOLOGY.** Credit five or ten hours. Three terms. Graduate course.
30. **MONOGRAPHIC WORK.** Credit five or ten hours. Three terms. Graduate course.
31. **RESEARCH WORK IN ECOLOGY.** Credit five or ten hours. Three terms.
32. **MINOR INVESTIGATIONS.** Field and laboratory work. Credit one to three hours. Three terms.
33. **CURRENT LITERATURE.** Prescribed critical reading and indexing. Credit one to three hours. Three terms.

## DEPARTMENT OF CHEMISTRY.

[CHEMICAL HALL, Rooms 7, 14, 18, 20, 21, 22, 24, 25.]

*Professor McPherson, Professor Norton, Associate Professor Henderson, Assistant Professor Foulk, Mr. Linville, Mr. Dubois, Mr. Kimberly*

1. **ELEMENTARY CHEMISTRY.** Arranged for students who have little or no knowledge of Chemistry. Three sub-divisions; one lecture, one quiz, and three hours' laboratory practice weekly throughout the year. In the laboratory the student performs an extended series of experiments illustrating the principles of Chemistry. Three hours credit.
2. **QUALITATIVE ANALYSIS.** Laboratory, lectures and quiz. Students familiarize themselves with the properties of the elements with a view to their detection, and then apply this knowledge to the analysis of unknown substances. Three to five times a week. First and second terms.
7. **ELEMENTARY CHEMISTRY.** Inorganic. One lecture, one quiz and six hours' laboratory practice weekly. Laboratory work; First term, experiments upon non-metals; second term, principles of qualitative analysis. Five times a week. First and Second terms.
8. **ORGANIC CHEMISTRY.** Lectures and recitations. Five times a week. First term.
9. **ORGANIC CHEMISTRY.** Lectures and laboratory practice. The latter includes the preparation of typical organic compounds. Third term.
11. **TOXICOLOGY.** Lectures. Poisons—their effects, antidotes and detection. Four times a week. Third term.
12. **QUALITATIVE ANALYSIS.** One lecture and six hours' laboratory practice weekly. Third term.
13. **QUALITATIVE ANALYSIS.** One lecture and four hours' laboratory practice weekly. Second term.
15. **SANITARY ANALYSIS.** Lectures and laboratory practice. A study of the most important chemical methods for the analysis of water and air. This course must be preceded by quantitative analysis, and at least the equivalent of Course 8 in Anatomy and Physiology (bacteriology). Four times a week. Third term.
16. **APPLIED CHEMISTRY.** Lectures on Industrial Chemistry. These are made as practical as possible by visits to different chemical works. When possible specialists deliver lectures on subjects belonging to their particular line of work. Four times a week. Second term.
17. **INORGANIC PREPARATIONS.** This course includes the preparation of chemically pure inorganic substances from the crude materials. Three to five times a week. First term or Third term.
20. **QUANTITATIVE ANALYSIS.** Laboratory, lectures and recitations. Use of the balance and general principles of gravimetric analysis. Drill in the solution problems in quantitative analysis; study of properties of precipitates; principles of volumetric analysis. Selections are made from such analytical methods as best meet the needs of the student. The samples used for analysis are mixtures or commercial products the percentage composition of which is not made known to the student until he has reported his own results. Three to five times a week throughout the year. This course must be accompanied by Course 21.



21. **ADVANCED GENERAL CHEMISTRY: PHYSICAL CHEMISTRY.** Lectures and recitations. This course includes (a) a general survey of inorganic chemistry based upon the arrangement of the elements in accordance with the periodic law, and (b) a discussion of the main principles of physical chemistry and their application to general chemical processes. Twice a week throughout the year.
22. **ORGANIC CHEMISTRY.** Recitations and laboratory practice. The latter includes the preparation of some of the important organic compounds used in medicine. Five times a week. Second term.
25. **HISTORICAL CHEMISTRY.** Lectures and recitations. Three times a week. Third term.
26. **CHEMICAL SEMINARY.** Advanced students meet to discuss special topics and reviews of current literature. Once a week throughout the year.
27. **ADVANCED CHEMISTRY.**
  - a. **ORGANIC.** Laboratory. Arranged for students who have completed Courses 8 and 9. The work includes the further preparation of typical organic compounds, their purification and analysis. Five times a week throughout the year.
  - b. **INORGANIC.** Laboratory. Students are allowed to select such work as they are capable of undertaking, as the critical examination of analytical methods and the preparation and study of complex inorganic compounds. Five times a week throughout the year.
28. **ORGANIC CHEMISTRY.** Lectures on special topics. The subject for 1901-1902 will be "The Carbohydrates." Twice a week. Third term.
29. **RESEARCH WORK.** Library and laboratory work. Arranged for graduate students. Five to ten times a week throughout the year.

## DEPARTMENT OF CIVIL ENGINEERING.

[HAYES HALL, Rooms 13, 14, 19]

*Professor Brown, Assistant Professor Sherman, Mr. Davies*

1. **LAND SURVEYING.** Recitations and field work. Johnson's Theory and Practice of Surveying. Six times a week. First term.
2. **RAILROAD SURVEYING.** Recitations and field work. Searle's Field Engineering. Six times a week. Third term.
3. **TOPOGRAPHICAL SURVEYING.** Lectures, field work and drawing. Johnson's Surveying used for reference. Four times a week. First term.
4. **TOPOGRAPHY.** Platting, pen and tinted work. Reed's Topographical Drawing and Sketching. Four times a week. Second term.
6. **STEREOTOMY.** Recitations, drawing and model cutting. Warner's Stereotomy. Four times a week. Second term.
7. **BRIDGE STRESSES.** Recitations and lectures. Part I of Dubois's Stresses in Framed Structures. Five times a week. Third term.
8. **BRIDGE DESIGNING.** Lectures and drawing. Part II of Dubois's Strains in Framed Structures and Johnson's Modern Framed Structures used for reference. Five times a week. First term.
10. **SANITARY ENGINEERING.** Lectures. Five times a week. Third term.
14. **CIVIL ENGINEERING LABORATORY.** Cement testing, adjustment of instruments. Twice a week. Second term.



15. **MASONRY CONSTRUCTION.** Recitations and lectures. Baker's Masonry Construction. Five times a week. First term.
16. **HIGHWAYS.** Recitations and lectures. Byrne's Roads and Streets. Five times a week. First term.
17. **RAILWAY LOCATION.** Recitations and lectures. Wellington's Economic Theory of Railway Location. Five times a week. Second term.
18. **WATER SUPPLY.** Recitations and lectures. Five times a week. Third term.
19. **TRUSSES.** Lectures and drawing. Five times a week. Third term.
21. **SURVEYING.** Recitations and field work. Davies' Surveying. Three times a week. Third term.
22. **SUMMER COURSE IN FIELD WORK.** The students are taken into camp in a rough, broken country and given a thorough drill in land and elementary railroad surveying. The course begins directly after commencement day, and continues four weeks of six days per week, ten hours per day. The work of the student and the discipline of the camp is in the hands of competent instructors. This course must be preceded by Courses 1, 2 and 4. Students conditioned on any of these courses, may be admitted at discretion of instructor in charge. (At conclusion of second year of course.)
23. **SUMMER COURSE IN FIELD WORK.** Similar to Course 22. Students work on advanced railroad surveying and topographical surveying. This course must be preceded by Courses 3, 22 and 24. Students conditioned in any of these courses may be admitted at discretion of instructor. (At conclusion of third year of course.)
24. **DRAWING OF ENGINEERING STRUCTURES.** Five hours a week. Second term.

## DEPARTMENT OF CLAY WORKING AND CERAMICS

[ORTON HALL, Rooms 4, 18, 25, 26, 27]

*Professor Orton, Mr. Bleininger*

1. **CERAMIC CHEMISTRY.** This course is open only to those who have Completed General Chemistry 12. The student begins the quantitative analysis of salts and chemicals, and later works on limestone and other easy materials. Five times a week. First term.
2. Continuation of Course 1. The student begins the quantitative analysis of clays and complex minerals, working first on samples of known composition, and later on unknown materials. Five times a week. Second term.
3. Continuation of Course 2. The student completes the ultimate analysis of clays and begins the proximate "Rational" analysis of clays and pottery bodies, following the methods of Seger. Five times a week. Third term.
4. **LECTURES ON CLAY MANUFACTURE.** (supplemented by frequent recitations). The origin, composition and properties of clays and other minerals employed in the clay, glass and cement industries. Five times a week. First term.
5. Continuation of Course 4. A series of lectures, with recitations, on the general principles of the manufacture of bricks and the coarser clay wares, including the selection and winning of the materials, their preparation, manufacture, burning and testing. Five times a week. Second term.
6. Continuation of Course 5. A series of lectures, with recitations, on the classification and manufacture of pottery and the finer grades of clay wares, including the selection of the materials, preparation of the bodies, manufacture of the ware, preparation of the glazes, burning and decoration of the wares and the pyrometry of ceramics. Five times a week. Third term.

7. **CERAMIC CHEMISTRY.** Continuation of Course 3. Open only to those who have completed that course. The analysis of glasses and glazes, devoting special attention to the use of hydrofluoric acid in silicate analysis, and to the determination of lead and boracic acid. Five times a week. Second term.
9. **LABORATORY WORK IN CERAMICS.** Open only to those who have completed Courses 3 and 6. The student will undertake the production of such wares as are made from single clays; then wares made by blending two or more natural clays; and, then, such wares as are made from an artificial body. In each case the bodies made will be burnt and tested. Five times a week. First term.
10. Continuation of Course 9. The student will practice on the production of glasses and glazes, beginning with the natural "slip glazes" and taking successively the soft raw-lead glazes, the fritted lead-boracic-acid glazes, and the hard-fibre leadless porcelain glazes. In each case the glazes will be made for use on some definite body, and will be made to "fit." Five times a week. Second term.
11. Continuation of Course 10. The student will practice on the use of the coloring and opacifying oxides in glazes, and on the production of colors for the decoration of pottery, and of body-stains. Five times a week. Third term.
12. **LECTURES ON CEMENT MANUFACTURE.** The theory of hydraulicity, the compounding, manufacture and testing of natural and Portland cements and hydraulic silicates. Open to students who have had courses 3 and 6. Facilities for laboratory work in making, burning and testing cements will be given. Five times a week. Second term.
15. **THESIS.**
16. **GENERAL PRINCIPLES OF APPLIED CERAMICS.** A series of lectures on the chemical technology of the clay, glass and cement industries. Three times a week. Third term.
17. **PRACTICE** in making drawings and specifications for brick kilns, brick dryers, pottery kilns, gas producers, glass pot-furnaces, glass tanks, cement kilns and burning cylinders. Students will be allowed to specialize along the lines they intend to follow. Four times a week. Second term.

## DEPARTMENT OF DOMESTIC ECONOMY

[HAYES HALL, Rooms 1, 3, 10.]

*Professor Stoner. Associate Professor Souther*

### I. DOMESTIC SCIENCE

1. **FOOD ECONOMICS.** One lecture and three laboratory periods each week. Four hours credit. Lectures embracing a study of the evolution of society as affected by food conditions; second, a study of food principles. Laboratory work includes experimental work with foods, and the preparation and serving of typical foods of certain classes. First term.
2. **FOOD ECONOMICS.** One lecture and three laboratory periods each week. Four hours credit. By lecture and research work, the relative nutritive and money values of foods are considered. Each student prepares a weekly dietary for the family; the amount to be expended limited by the instructor. United States Agricultural Bulletin standards used. Laboratory work is a Continuation of Course I. Second term.

3. **EMERGENCY WORK AND HOME NURSING.** One lecture and three laboratory periods each week. Four hours credit. The lectures, demonstrations and practical work are designed to set forth the principles underlying good nursing, to take up the dietetic treatment of various diseases and to consider such emergency cases as frequently require prompt treatment in the home. Food suitable for invalids, infants and convalescents is prepared in the laboratory. Third term.
- 4a. **PRESERVATION OF FOODS.** Four weeks.
- 4b. **HYGIENE OF CLOTHING.** Eight weeks.  
One lecture and three laboratory periods each week. Four hours credit.  
(a). Includes a brief study of the causes of decomposition, a history of the methods employed in the preservation of foods, and practical work in canning, preserving, etc.  
(b). Includes a study of fibres and their proper treatment. The properties and cleansing effect of water and soap; disinfecting clothing; the chemical treatment of stains and demonstrated work in practical laundry methods. First term.
10. **HOUSEHOLD ECONOMICS.** Lecture course. Elective. Two hours. A consideration of the best location for a house; its hygienic and sanitary construction and arrangement and approved methods of lighting, heating and ventilating. Third term.

## II. DOMESTIC ART

5. **LECTURES ON THE INDUSTRIAL AND ARTISTIC EVOLUTION OF SOCIETY.** History of the early races considered with special reference to the development in culture gained through hand-work. Practice work: Preparations of a series of models comprising the different stitches used in plain hand sewing; ornamental stitches and simple embroidery. One lecture and three practice periods each week. Four hours credit. Second term.
6. **LECTURES ON TEXTILES.** Study of fibres; their growth and the processes of manufacture. Comparative economic values of fabrics. Practice work; Machine and hand work on underwear; drafting from simple measurements; designing in pencil; use of patterns; making shirt waists or wash gowns; Simple straw hats and bows. One lecture and three practice periods a week. Four hours credit. Third term.
7. **LECTURES ON HISTORIC COSTUME.** Consideration of line, form and color; hygienic and artistic dress; treatment of wool and silk fabrics. Practice work : Drafting patterns by use of Tailoring System. Cutting and fitting. Making wool dress. Making of hat frames, covering and trimming the same. One lecture and three practice periods a week. Four hours credit. First term.
8. **LECTURE AND PRACTICE WORK.** Continuation of Course 7. As much time as possible being given to pencil and water coloring designing of costumes and hats suitable to different wearers. Original designs required to be made and carried out in the case of each individual pupil. One lecture and three practice periods a week. Four hours credit. Second term.
9. **LECTURES ON HISTORY OF DOMESTIC ART AND ARCHITECTURE AND THE APPLICATION OF ART TO MODERN HOUSE DECORATION.** Practice work: Continuation of Course 8. Further work in practical costume making as may be designated by the instructor; the aim being to foster good taste and judgment in the use of expensive and inexpensive materials. Expressions of individuality encouraged but held subservient to general artistic principles, to rules of hygiene and to prevailing modes. One lecture and three hours practice work each week. Four hours credit. Third term.



Note. Individual instruction is given throughout. Pupils are required to furnish all materials except those used in making models of Course 5. A certain amount of work is required to be completed before admittance is given to the next higher grade of work.

## DEPARTMENT OF ECONOMICS AND SOCIOLOGY

[UNIVERSITY HALL, Rooms 17 and 18]

*Professor Clark, Assistant Professor Hagerty, Mr. ———.*

Courses 1a or 1b must precede all courses except 2, 3, 4.

### UNDERGRADUATE COURSES

1. **ELEMENTS OF POLITICAL ECONOMY.** A careful study of the laws of production, exchange, distribution and consumption of wealth; combined with an analysis of the industrial actions of men as regards land, labor, capital, money, credit, rent, interest, wages, etc. Text-book, lectures and individual investigations. 1a four times a week, first term and twice a week, second term and four times a week, third term. This course is required of all students in the Art College in their second year. Those whose names begin with the letters L to Z will take 1a; others will take 1b. Law students will find this course well adapted to their work.
2. **THE HISTORY OF INDUSTRIAL SOCIETY.** A general view of the evolution of industrial society; involving a study of the Manorial and Guild Systems; of the rise of class interest; the formation of trading companies; land-holding; the development of capitalistic enterprise and the economic legislation and theories that grew out of these conditions. with special reference to England. Lectures and assigned readings. Twice a week. First term. Courses 2, 3, 4 are open to all students of the university without preliminary requirements.
3. **INDUSTRIAL AND FINANCIAL HISTORY OF THE UNITED STATES.** A complete survey of American industries, financial resources and policies. Lectures. Twice a week. Second term.
4. **TRANSPORTATION.** A study of the development and present economic status of roads, canals and railroads in their relation to industry and to the state. Lectures. Twice a week. Third term.
5. **PRACTICAL PROBLEMS: Immigration, Money, Land.** Twice a week, First term.
6. **PRACTICAL PROBLEMS: Railroads, Tariff, Crises.** Twice a week. Second term.
7. **PRACTICAL PROBLEMS: Of Labor and Capital.** Twice a week. Third term. leading systems of financial administration throughout the world. Text-book and lectures. Twice a week. First and second terms.
8. **PUBLIC FINANCE AND TAXATION.** This course aims to make the student acquainted with the theory of public revenue and expenditure; and with the leading systems of financial administration throughout the world. Text-book and lectures. Twice a week. First and Second Terms.
9. **MONEY, CREDIT AND BANKING.** This course involves the history and theory of the subject, a comparative study of monetary systems, currency, etc., together with the various methods of banking; national banks; clearing house system, etc.; with a critical analysis of proposals for reform. Lectures and collateral readings. Twice a week. Third term.



- 10 **COMMERCE.** The scope of this course is seen in the following arrangement of the work. First term: History and Geography of Commerce. Second term: Theory and Technique of Commerce. Third term: Art of Commerce. In this term's work a study will be made of various policies of extending foreign trade; the investment of capital and the establishment of industrial organizations. The course must be preceded by 1a or 1b, and by the group 2, 3 and 4 or 5, 6 and 7, and is to be elected in the third year. It should be followed in the fourth year by Course 17b. Lectures, practical investigations and reports. Three times a week through the year.
11. **SOCIOLOGY.** Text-books, lectures and original investigations. Through the kindness of the various officers of the Godman Guild-House opportunity will be provided students in this course of doing practical work at the guild. The course, as to time and subject matter, will be arranged to suit those in the city who may wish scientific training along the lines of charity and philanthropic work, and the State Board of Charities as well as the Officers of the Associated Charities of the city are enlisted in the work of this course. First and second terms. Three times a week. By permission it may be begun in the second year or elected as special work. First term: Giddings' Elements of Sociology. Second term: Hender-son's Dependents, Defectives and Delinquents. It should precede Course 12. Advanced Sociology will be found in Course 17.
12. **THE HISTORY AND THEORY OF SOCIALISM.** A complete study of the subject in its historical, economic and critical aspects. The socio-economic doctrines of the philosophers, the Utopias of Plato, More, Campanella, Cabet, etc., and the theses of the various German, French and English schools of socialists, will be treated. The origin of private property, the right to labor, rights of industrial classes and the fundamental principles of industrial society will be analyzed. Syllabus, lectures and collateral readings. Three times a week. Third term.
13. **SOCIOLOGY AND STATISTICS.** Lectures and laboratory work. This course may be taken separately or accompany Course 11, 16 or 17. Once a week through the year. Students making Sociology a major should take this course in their third year.
14. **ECONOMIC LITERATURE AND LEGISLATION.** A round-table study of current industrial affairs; reviews of magazine articles, books, reports on bills, etc. Once a week through the year. Course may be taken separately or accompany Course 10, 15, 16 or 17. Students making Economics a major study should take this course in their Junior year.
15. **SEMINARY IN ECONOMICS.** Two hours a week at one meeting. All students who elect their Major Study in Economics must take this course in their fourth year. Open, as elective, to other students, graduate and advanced under-graduate, on permission of the instructor. Should be preceded by Course 20. The work for the ensuing year, 1901-1902, is outlined as follows: At each alternate meeting a practical problem will be presented and discussed. The other meetings will take up the study of Classical Economists: English, German and American. Those contemplating taking the course should arrange for this work in advance and receive their assignments.

16. **THESIS WORK.** Twice a week, three terms. In this work, as far as possible, only original sources are used, and investigations made from real life. The aim is to set before each student the accomplishment of the task of extending in some degree, however slight, the boundaries of economic and sociological knowledge. Meetings are arranged with the instructor throughout the year.
18. **BUSINESS LAW AND FORMS.** Text-book, lectures and laboratory work. May be taken in connection with Course 10. Twice a week. First and second terms.
19. **CORPORATION PROBLEMS.** This course aims at a complete analysis of the subject in both its theoretical and practical aspects. It follows Course 18. Twice a week. Third term.
20. **HISTORY OF POLITICAL ECONOMY.** This course should be preceded by Course 2. It is designed especially for those taking their major in this department and should be elected in the Junior year. Twice a week. Second term.

## GRADUATE COURSE.

17. **ADVANCED ECONOMICS.** From one to ten times a week, three terms. Open to undergraduates only on permission of instructor. The aim of this course is to offer the student an opportunity to specialize to any degree he may desire along the various lines within the field of the department. Elections will naturally fall under one of the following heads:
  - (a) Theoretical Problems. (b) Historical Problems. (c) Practical Problems. (d) Finance. (e) Commerce. (f) Sociology (Theoretical or Practical). (g) Statistics. (h) Teacher's Course and Training for Fellowship.
 When several students elect the same line of work, they may constitute themselves a group and a seminary will be organized as a nucleus for such work. A *Seminary in Sociology* (17f) is announced for the year 1901-2. Two hours a week.

## DEPARTMENT OF EDUCATION

[UNIVERSITY HALL, Rooms 51 and 54]

*Professor Gordy, Mr. Hamilton*

1. **EDUCATIONAL PSYCHOLOGY.** Three times a week, three terms.
2. **CHILD STUDY.** Four times a week, three terms.
3. **HISTORY OF EDUCATION.** Four times a week, three terms.
4. **METHODS OF RESEARCH.** Twice a week, three terms.
5. **SCIENCE OF EDUCATION.** Four times a week, three terms.
6. **MODERN EDUCATIONAL SYSTEMS.** Twice a week, three terms.
7. **A STUDY OF SCIENTIFIC METHOD.** Twice a week, three terms.
8. **THE RECITATION.** Twice a week, three terms.
9. **SEMINAR.** Twice a week, three terms.

## DEPARTMENT OF ELECTRICAL ENGINEERING.

[ELECTRICAL BUILDING, Office Room 8]

*Professor Caldwell, Assistant Professor Fish, Mr. DeWolf.*

6. **ELECTRICAL ENGINEERING.** Lectures on direct and alternating circuits, dynamo machinery, transformers, accumulators and applications. Twice a week. First and Second Terms.
7. **ELECTRICAL ENGINEERING.** Laboratory work on the subjects treated in Course 6, which it accompanies. Twice a week. First and Second Terms.
8. **DIRECT CURRENT DYNAMO MACHINERY.** Generators and Motors, their theory, construction and operation. Lectures, recitations and problems. Four times a week. Second Term.
9. **ELEMENTARY DYNAMO LABORATORY.** Handling and testing of circuits, generators, motors, accumulators, lamps, etc. Nine actual hours per week. Third Term.
10. **ALTERNATING CURRENT CIRCUITS AND MACHINERY.** Generators, transformers, single and polyphase motors, apparatus and systems. Lectures, recitations and problems. Three times per week.
11. **ADVANCED DYNAMO LABORATORY.** Continuation of the work begun in Course 9, together with accumulators, lamps, alternate current apparatus, telephone apparatus, etc. First and Second Terms, six actual hours. Third Term, with thesis work nine actual hours.
12. **ELECTRICAL TRANSMISSION AND DISTRIBUTION.** Systems, operation and apparatus. Twice a week. Second Term.
13. **APPLICATION OF ELECTRICITY.** Brief treatment of the elements of Illumination, Street Railway Work, Telephone, Telegraph, Electro-metallurgy, Mining, etc. The seminary method is used in this course to the extent of each student writing one paper on some assigned subject, and reading the same before the class. Five time per week. Third Term.
4. **ELECTRICAL DESIGN.** Includes wiring of buildings, Direct and Alternate current generators, transformers, distribution, etc. Eight hours per week in the drawing room. Second and Third Terms.

## DEPARTMENT OF ENGLISH LITERATURE.

[UNIVERSITY HALL, Room 31]

*Professor Barrows, Associate Professor Taylor.*

Course 1 is prerequisite to all other courses, except those in the Bible.

Students whose major study is in English Literature, are required to take course 16 in the third year.

The following courses are given biennially: 18, 11 and 12, which will be given in 1901-2, will alternate with 2, 3, 4, 5 and 6, which will be given in 1902-3.

Most of the required texts of the poets and prose writers included in these courses, except Shakespeare, the Bible and novels, can be obtained of the department at a very moderate charge.



## I. UNDERGRADUATE COURSES.

1. **AN INTRODUCTION TO ENGLISH LITERATURE.** Twice a week through the year. Includes: (1) A review of the development of English literature; for this part of the work, Pancoast's "Introduction to English Literature" is covered in three examinations. (2) Lectures on the elements of literary analysis and interpretation. (3) Critical study of selections characteristic of different authors and of various periods, to secure acquaintance with literary problems, to cultivate perception of literary qualities, and to verify the assertions of the lectures. The book first required for this part of the work, is Palgrave's "Golden Treasury."
2. **FROM SPENCER TO MILTON, EXCLUSIVE OF THE DRAMA.** Twice a week, first term.
3. **FROM DRYDEN TO POPE, EXCLUSIVE OF THE DRAMA.** Twice a week, second term.
4. **THE AGE OF JOHNSON, EXCLUSIVE OF THE DRAMA.** Twice a week, third term. In these three courses is offered a connected view of both prose and poetry, from Spenser to Burns. Each may be taken independently.
5. **PROSE FROM BURKE TO THE VICTORIAN AGE.** Three times a week, first term.
6. **POETRY FROM BURNS TO THE VICTORIAN AGE.** Three times a week, second and third terms.

These courses offer a survey of the literature of the early nineteenth century.

Lectures on the rise of the romantic spirit; on the development of thought in this period; on the relations of authors to each other and to the times; and on the significance of their writings. Critical study of selections.

7. **THE ENGLISH BIBLE: THE PENTATEUCH AND EARLIER HISTORIES.** Once a week, through the year. Given in 1901-2.
8. **THE ENGLISH BIBLE: LATER HISTORIES, POETRY AND PROPHECIES.** Once a week, through the year. Given in 1902-3.
9. **THE ENGLISH BIBLE: THE NEW TESTAMENT.** Once a week, through the year. Offered in 1903-4.

No other study in this department is prerequisite to these courses in the Bible: they are open to all students in the University, subject to the approval of the appropriate Executive Committee. Required text: "The Oxford Two Versions Bible."

10. **THE DRAMA FROM THE BEGINNING TO THE CLOSING OF THE THEATRES.** Three times a week, through the year. In the first term Shakespeare's plays are read, with no more reference to philology and history than is necessary to an understanding of the text, and various problems of dramatic art are discussed in connection with the plays that best illustrate them. In the second term the best Elizabethan plays are studied in the same way, and there is a course of lectures on the development of the drama. The study of plays, including at least three by Shakespeare, is continued in the third term.
11. **THE MODERN NOVEL.** Three times a week, first and second terms. Lectures, readings and written reports.
12. **AMERICAN AUTHORS.** Three times a week, third term. Lectures, readings and written reports.
13. **CHAUCEER.** Three times a week, first term.
14. **MILTON.** Three times a week, second term.
15. **MODERN PLAYS.** Three times a week, third term.



16. **LITERARY PROBLEMS.** Twice a week, through the year. A series of topical studies. Lectures followed by illustrative readings selected from the entire range of our literature: written reports and discussions. Required in the third year of students whose major work is in this department.
17. **MASTERPIECES: A STUDY OF LITERARY TYPES.** Three times a week through the year. Open to undergraduates who have taken not less than twelve term-hours of elective work in this department, and to graduates who have done an equivalent amount of work in literature. The study is of the origin and development of literary types, the best examples in English being chosen for basis. The types will include the drama, the epic, the idyll, the lyric, and in prose the novel, the short story and the essay.
18. **VICTORIAN LITERATURE.** Twice a week, through the year. The study of the literary output of the Victorian age will be so arranged that the student can take the work of each term separately.
19. **CURRENT LITERATURE.** Twice a week, through the year. Open only to graduates and undergraduates in the fourth year whose major work is in one of the English departments.

## II. GRADUATE COURSES

20. **TRANSLATIONS.** Twice a week, through the year. A study of the indebtedness of English to other literatures, and of various problems of general literature.
21. **MASTERPIECES: A COURSE FOR TEACHERS.** Five times a week, through the year. Lectures in outline, to be developed by the student, on the literary aspects of each period; biographical studies of the authors of the masterpieces studied; extended criticism of masterpieces selected in consideration of their importance in the development of literature, and taken up in chronological order. An advanced review of the subject, designed for those who intend to become teachers.
22. **THE DEVELOPMENT OF LITERARY TYPES.** Three times a week, through the year. A course in comparative criticism, the types in English literature being referred to their models in classic or romance literature. It calls for a reading knowledge of French or German, and some acquaintance with Greek and Roman literature. In 1901-2, the various developments of the epic and of the idyll will be considered, and the rise of romance and the consequent modern developments

## DEPARTMENT OF EUROPEAN HISTORY

[UNIVERSITY HALL, Rooms 7, 17, 36]

*Associate Professor Siebert*

Courses 7 to 13 inclusive must be preceded by Courses 1, 2 and 3

1. **EARLY MIDDLE AGES.** The history of Europe to 1300, including the establishment of the mediæval empire, the formation of the separate states, the rise of the Christian church, the crusades, and the conflict of the empire and the papacy. Lectures, recitations and assigned readings. Emerton's *Mediæval Europe*. Three times a week, first term. Two sections.

2. **THE RENAISSANCE.** The history of Europe from 1300 to 1500, giving an account among other things of the revival of learning, the revival of commerce and industry, the growth of absolutism, and the voyages of discovery. Lectures, recitations and assigned readings. Lodge's *European History, 1272-1494*. Three times a week, second term. Two sections.
3. **MODERN EUROPE.** A general survey of European history from 1500 to the present time, including the reformation, the rise of Russia and Prussia, the English and French revolutions, and the unification of Italy and Germany. Lectures, recitations and collateral readings. Schwill's *Modern Europe*. Three times a week, third term. Two sections.
4. **POLITICAL AND CONSTITUTIONAL HISTORY OF ENGLAND.** This course is designed for students who expect to study law, or teach English history in the schools, and those who wish to know something of the origin of American institutions. Gardiner's *Students' History of England*. Three times a week, three terms.
5. **POLITICAL AND SOCIAL HISTORY OF GREECE TO THE ROMAN CONQUEST.** A short course introduced by a few lectures on ancient Oriental history. Lectures, text-book and assigned readings. Botsford's *History of Greece*. Twice a week, first term. Given biennially. *Omitted in 1901-1902.*
6. **ROMAN HISTORY AND INSTITUTIONS TO THE END OF THE REPUBLIC.** This course, together with Course 5, is intended especially to meet the needs of students taking Latin and Greek, and those preparing to teach ancient history in the schools. Lectures, recitations and special reports. Twice a week, second and third terms. Given biennially. *Omitted in 1901-1902.*
7. **PERIOD OF THE PROTESTANT REFORMATION.** Open to those who have had Courses 1, 2 and 3. This is an advanced course, and deals with reformational movements from the time of the death of Dante (1321) to the Council of Trent (1562). Lectures, collateral reading and investigations. Three times a week, first term. Given biennially. *Omitted in 1901-1902.*
8. **THE FRENCH REVOLUTIONARY AND NAPOLEONIC PERIODS, 1789-1815.** Open to students who have had Courses 1, 2 and 3. An intensive study of the causes and effects of the French Revolution, and of Napoleon's struggle with Europe. Lectures, collateral reading and special reports. Three times a week, second term. Given biennially. *Omitted in 1901-1902.*
9. **HISTORY OF EUROPE IN THE NINETEENTH CENTURY, 1815-1900.** Open to students who have had Courses 1, 2 and 3. Lectures, assigned readings, and topical reports. Three times a week, third term. Given biennially. *Omitted in 1901-1902.*
10. **HISTORY OF EUROPEAN COLONIES.** Open to students who have had Courses 1, 2 and 3. A study of the colonial enterprises of Portugal, Spain, England, the Netherlands, France and Germany. This course begins with the age of geographical discoveries, and traces the evolution of colonies to the present time. Lectures, assigned readings and investigations. Three times a week, first and second terms. Given in 1901-1902.
11. **THE EASTERN QUESTION.** An advanced course treating of the relations of European powers with Turkey and Russia by means of lectures, topical reports and required readings. Open to students who have had Courses 1, 2 and 3. Course A gives a special preparation for this course. Three times a week, third term. Given in 1901-1902.
12. **THE HISTORY OF FRANCE.** From the ninth to the middle of the eighteenth century. Special attention will be given to French institutions. Open to students who have had Courses 1, 2 and 3. Lectures, required readings and topical reports. Twice a week, first term. Given in 1901-1902.

13. **DOCUMENTARY AND BIBLIOGRAPHICAL STUDIES IN EUROPEAN HISTORY.** Practical exercises in bibliographical work and the use of original documents. Required of those intending to do thesis work in the Department of European History. Lectures and special reports. Twice a week, second and third terms. Given in 1901-1902.

## DEPARTMENT OF GEOLOGY.

[ORTON HALL, Rooms 3, 8, 10 and 13]

*Professor Prosser, Professor Bownocker*

1. **PHYSIOGRAPHY.** The topographic feature of the earth's surface and the agencies producing these. The atmosphere, climate, etc. Oceans, rivers, and lakes. Recitations, lectures, map work. Five times a week, third term.
2. **GENERAL GEOLOGY.** Structural, historical and dynamical geology. Three hours lectures and recitations and four laboratory and field work. In the laboratory Dana's Manual of Geology, the Ohio Geological Reports and characteristic fossils will be studied. In the field, specimens will be collected, sections measured, formations identified and the students given an idea of the methods of work pursued by a field geologist. Credit five hours. First term.
4. **ELEMENTARY GEOLOGY.** Recitations, lectures, laboratory work. Lithological, dynamical, structural and historical geology. Five times a week, second term.
5. **ECONOMIC GEOLOGY.** The common minerals and rocks composing the earth's crust, their disintegration and decomposition. Soils, their origin and classification; the soils of the United States and especially those of Ohio. Fuels, coal, oil, and gas. Building stones, limes and cements. Iron, and the most useful metals. Lectures and laboratory work. Three times a week, second term.
6. **ECONOMIC GEOLOGY.** Lectures and assigned reading. Economic materials of stratified rocks, clays, limes, cements, coals, iron ores, phosphates, petroleum and gas. Economic materials derived from unstratified rocks—gold, silver, copper, mercury, etc. Three times a week, second term.
7. **PETROGRAPHY.** Lectures and laboratory work. The igneous, sedimentary, and metamorphic rocks,—their origin and classification. The volcanic rocks of the western United States,—their composition, structure and alteration products. The object of this course is to give the student a practical acquaintance with rocks. Twice a week, second term.
11. **INORGANIC GEOLOGY.** Including cosmical, lithological, dynamical, and structural Geology. Lectures, recitations, laboratory work, and field exercises. Three times a week, first term.
12. **HISTORICAL GEOLOGY.** A general course in paleontological and stratigraphical Geology, with laboratory study of Dana's Manual of Geology, the Ohio Geological Reports and identification of characteristic fossils. The development of organisms and the classification and distribution of the geological formations are considered. Lectures, recitations and laboratory work. Three times a week, second term.



13. **FIELD GEOLOGY.** Field and laboratory study of the geological formations readily accessible from Columbus. This course is intended to acquaint the student with the ordinary methods of field investigation, and involves the collection and identification of specimens, the measurement of geologic sections and the preparation of a report describing the region studied. Three hours credit, third term.
14. **PALEONTOLOGY.** Careful training in systematic classification which may be used in the philosophical study of the development of plant and animal life, or as a means of becoming acquainted with the fauna and flora that characterize the various geological formations.  
At first the student devotes some time to conchology, studying recent shells in which the characters used in classification are well preserved, and after this preliminary work, fossils are studied. Fossils afford the most reliable data for identifying and correlating geologic formations, and the critical study of fauna is a field especially adapted to independent research.  
Laboratory, museum and field work. Two to five hours credit. Three terms. This course may be undertaken at the beginning of the second or the third term.
15. **AREAL GEOLOGY.** Instruction in the methods of preparing geological maps and reports. The student compiles from a geological report a map with sections showing geologic structure, and later traces the outcrops and prepares a geological map of some region. Two to five hours credit. First and third terms.
16. **ADVANCED HISTORICAL GEOLOGY.** Work in paleontology and stratigraphical Geology for students who have had Courses 11, 12, 13 and 14. Three to five hours credit. Three terms.
17. **PHYSIOGRAPHY.** Study of the features of the earth's surface with special reference to North America; the agencies producing these features and geographical changes now in progress. Recitations, lectures, map-work, field excursions. Books used in preparation of work: Standard Works on Physical Geography; Russel's Rivers of North America; Lakes of North America; and Glaciers of North America; Shaler's Aspect of the Earth; Wright's The Ice Age of North America; The National Geographic Magazine; Maps of the Mississippi River Commission, etc. Twice a week, three terms.
18. **GEOGRAPHIC GEOLOGY.** The origin, development and destruction of topographic forms. Rivers, lakes, oceans, ice, and winds as agents modifying the surface of the earth. The great ice age in North America. [Primarily for teachers.] Lectures, map work, field excursions. Three times a week, third term.
19. **PETROGRAPHY.** Laboratory and Lectures. Optical crystallography, with practical determination of rock-forming minerals, macroscopically and microscopically. Study of the igneous rocks in the hand specimen and thin section. Twice a week, three terms. The Sturtz rock collection and Voight Hochgesang thin sections of typical minerals and rocks will be studied. Books of reference:—Mitchel Levy—*Les Minneaux des Roches*; Rosenbusch—*Mikroskopische Physiographie der Petrographisch Wichtigen Mineralien*, 3d. ed.; *Mikroskopische Physiographie der Massigen Gesteine*, 2d ed.; Teall's *British Petrography*; Spottiswoode's *Polarization of Light*. Prerequisites: Chemistry 1, Metallurgy 2 (Mineralogy and Crystallography).



## DEPARTMENT OF GERMANIC LANGUAGES AND LITERATURES.

[UNIVERSITY HALL, Rooms 32 and 33]

*Professor Eggers, Associate Professor Mesloh,  
Mr. Moore, Miss Barrows*

1. **ELEMENTARY GERMAN.** Four times a week, three terms. This course is intended not only to lay a good foundation for the further study of German but also to help in forming proper habits of study and in extending the student's view.
2. **SCIENCE READING.** Two or four times a week, three terms. This course includes a topical review of the grammar, a study of stem groups for the purpose of developing and increasing the student's vocabulary, and the reading of Gore's Science Reader, Walther's Meereskunde, Trabert's Meteorologie and a book dealing with the specialty chosen by the student.
4. **INTERMEDIATE GERMAN.** Four times a week, three terms. First term: Review of the Grammar; rapid reading of a number of novels. Second and third terms: Outlines of German Literature; Lyrics and Ballads; Composition.
- \*9. **CLASSICAL DRAMA AND PROSE.** Three times a week, three terms. First term: After a rapid review of the development of the German drama from earliest times, special attention is given to the dramas of Lessing, Schiller, Goethe. In the second and third terms the development of German prose is studied, with special attention to the prose of Luther, Lessing, Goethe, Heine; Composition.
- \*10. **MODERN PROSE AND DRAMA.** Three times a week, three terms. First term: Some of the great prose-writers and incidentally of other Germanic countries will be studied. The second and third terms will be devoted to the study of the modern drama of Germany and other Germanic countries; Composition.
11. **FAUST.** Twice a week, three terms. The approval of the professor in charge will have to be secured. Students are expected to take both parts.
12. **COLLOQUIAL EXERCISES.** Twice a week, first and second terms. This course is designed specially for teachers. Some lectures upon methods of teaching German will be given toward the close of the course.
13. **DEUTSCHER AUFSATZ.** Twice a week, third term. This course is designed specially for teachers. Original composition will be written.
- \*14. **GOTHIC.** Twice a week, first term. This course is purely linguistic and aims to lay a good foundation for subsequent work in language. The relation between Gothic and later dialects is emphasized. Wright's Gothic Primer will be used.
- \*15. **OLD HIGH GERMAN.** Three times a week, second term. A natural sequence to Course 14. The attention of the student is not only directed to the archaic forms and syntax but also to the best literary monuments. Wright's Old High German Primer.
- \*16. **MIDDLE HIGH GERMAN.** Three times a week, third term. Wright's Middle High German Primer. The poems of the Minnesingers, especially those of Warthervon der Vogelfeide, and one of the mediæval epics will be studied, principally from a literary standpoint.

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\*Omitted in 1902-1903.

- †17. **OLD NORSE.** Twice a week, first term. Kahle's *Altislandisches Elementarbuch*. This course is intended as an introduction to the literature as well as the language. Some prose saga will be read.
- †18. **HISTORY OF THE GERMAN LANGUAGE.** Twice a week, second term. Behaghel's *Die Deutsche Sprache*. This course aims to give a sound knowledge of the historical development of the German language.
- †19. **COMPARATIVE GRAMMAR.** Twice a week, third term. Meringer's *Indogermanische Sprachwissenschaft*. Henri's *Comparative Grammar of English and German*. After a general survey of the whole field the relation between English and German is carefully studied.
20. **SANSKRIT.** Twice a week, three terms. Perry's *Primer*; Lanman's *Reader*. Lectures introductory to the study of Indogermanic philology.
21. **PHONETICS.** Once a week, first term. A series of lectures discusses the nature of the various sounds of language, their production and interrelation. A knowledge of German is not essential for this course.
22. **DEUTSCHE KULTURGESCHICHTE.** Once a week, second and third terms.

## DEPARTMENT OF GREEK LANGUAGE AND LITERATURE

[UNIVERSITY HALL, Room 37]

*Professor Smith, Associate Professor Hodgman, Assistant Professor Elden*

1. **ELEMENTARY GREEK.** Five times a week, three terms. (No University credit.)
7. **XENOPHON: HELLENICA.** Four times a week, first term.
8. **HERODOTUS: BOOK VI.** Four times a week, second term.
9. **HOMER: ODYSSEY, BOOKS I-IV.** Four times a week, third term.
10. **LYSIAS: EIGHT ORATIONS,** Four times a week, first term.
11. **PLATO: APOLOGY AND CRITO.** Four times a week, second term.
12. **HOMER: ILIAD. BOOKS I-VI.** Four times a week, third term.
13. **THUCYDIDES: BOOK VII.** Three times a week, first term.
14. **DEMOSTHENES: DE CORONA.** Three times a week, second term.
15. **GREEK LYRIC POETS.** Three times a week, third term.
- \*16. **ATTIC DRAMA.** Twice a week, first term.
- \*17. **EURIPIDES: ALCESTIS AND MEDEA.** Twice a week, second term.
- \*18. **AESCHYLUS: ORESTEIA.** Twice a week, third term.
19. **EPIC POETRY.** Three times a week, first term.
20. **GREEK COMEDY.** Three times a week, second term.
21. **POST-CLASSICAL GREEK.** Three times a week, third term.
- \*22. **ANCIENT ART.** Twice a week, first and second terms.
- \*23. **PRIVATE LIFE OF GREEKS.** Twice a week, third term.

† Omitted in 1901-1902.

\* Not offered in 1901-1902.

## DEPARTMENT OF HORTICULTURE AND FORESTRY.

[HORTICULTURAL HALL]

*Professor Lazenby, Mr. Davis*

1. **ELEMENTS OF HORTICULTURE.** Lectures, text-book and laboratory work in garden, orchard and green-house. A study of the principles of plant growth and culture, preparation of soil, drainage and irrigation, weeds and insects. Four times a week. First term.
2. **GREENHOUSE CONSTRUCTION AND MANAGEMENT.** A study of the different types of plant houses, including methods of heating, ventilating and watering. The vegetable forcing house, and the crops grown therein. Lectures, recitations and laboratory work in greenhouse. Four times a week. Second term.
3. **PLANT PROPAGATION.** The theory and practice of multiplying plants by seeds, cuttings, divisions, layers, budding and grafting. A study of special garden crops, including fertilizers, tools and implements. Practice in transplanting, pollinating and the use of insecticides and fungicides. Lectures and laboratory work in garden and orchard. Four times a week. Third term.
5. **VARIETIES OF FRUIT.** A study of the history, characteristics, adaptation and general qualities of orchard and garden fruits, including their commercial and food value. Practice in judging and scoring apples, pears, peaches, grapes, citrous and nut fruits. Lectures, recitations and laboratory exercises. Four times a week. First term.
6. **PRINCIPLES OF FRUIT CULTURE.** A study of the location, tillage and fertilizing of fruit lands; the selection of varieties, laying out and planting of fruit grounds; the care of fruit plantations, including diseases, insects and fungi; spraying and the use of insecticides and fungicides; harvesting, preserving and marketing fruit. Lectures and recitations four times a week. Second term.
7. **SMALL FRUIT CULTURE.** A study of the varieties and methods of culture of the small or bush fruits. Practice in cross-pollinating, judging and scoring of small fruits; the relation of bees and birds to horticulture; insect enemies; fungus diseases and the theory and practice of spraying. Lectures, recitations and laboratory work in garden and orchard. Four times a week. First term.
8. **ELEMENTS OF FLORICULTURE.** A study of the origin, history, classification, general characteristics and development of ornamental plants. Lectures and laboratory work. Twice a week. First term.
9. **COMMERCIAL FLORICULTURE** A study of the propagation and culture of ornamental plants, including the general management of plant houses, the marketing of cut flowers and bedding plants. Lectures, recitations and laboratory work. Twice a week. Second term.
10. **AMATEUR OR HOME FLORICULTURE.** Including the study of window gardening and general management of house plants; the out-door flower garden and treatment of flower beds and borders. Lectures, recitations and laboratory work. Twice a week. Third term.



11. **ARBORICULTURE.** A study of native and introduced trees and shrubs; their use for timber, ornament, shade, shelter and hedges; methods of propagation and culture. Lectures and field work. Twice a week. First term.
12. **FORESTRY AND SYLVICULTURE.** A study of the influence of forests upon soils, crops and climate; forestry in Europe; value of trees for timber; establishment and management of small plantations of forest trees; how to improve and extend existing woodland. Lectures and laboratory work. Twice a week. Second term.
13. **LANDSCAPE GARDENING.** A study of the art of producing picture-like or landscape effect; the making of lawns, walks and drives, and the correct planting of trees, shrubs and flowers for the external adornment of home and public grounds. Lectures and practice. Twice a week. Third term.

#### DEPARTMENT OF INDUSTRIAL ARTS

[HAYES HALL, Rooms 2, 9, 12, 17, 18, 5 and 6]

*Professor Sanborn, Assistant Professor Knight, Mr. Renck, Mr. Crowe*

##### I. INDUSTRIAL ARTS.

1. **TOOLS AND MACHINES.** Lectures and recitations on hand and machine tools and the principles underlying their construction and operation, and materials used in construction. Three times a week. First, Second and Third terms.
2. **DESIGNING.** Problems in design, to accompany Course 1. Three times a week. Second and Third terms.
3. **SHOP EQUIPMENT, APPLIANCES AND MANAGEMENT.** A continuation of Course 1. Lectures and recitations on the strength and durability of the materials used in construction; shop and factory buildings and their construction; power, power transmission and prime movers; automatic machines and other special devices for turning out cheap and accurate work: methods of compensation and shop accounts and management. Three times a week. First, Second and Third terms.
4. **ADVANCED DESIGNING.** Problems in the design of buildings and the arrangement of machinery, line-shafting, etc., for manufacture plants; to accompany Course 3. Three drawing periods a week. First, Second and Third terms.
5. **WORKSHOP APPLIANCES.** Lectures and problems on the construction of shop buildings and the arrangement of machinery; power required and the means of transmission: friction in line-shafting and the efficiency of machinery; automatic machines and special shop appliances. Three times a week. Third term.
7. **MACHINE DESIGN.** Practical application of the principles of machine design. Three periods a week.

##### II. SHOPWORK.

NOTE—For time requirements, credit given, and all similar information concerning shopwork courses, see table at end.

1. **CARPENTRY AND PATTERN MAKING.** Exercises and practice in carpentry, wood-turning and pattern making, including sawing, planing, mortising, splicing, framing and other work involving the use of the ordinary carpenter tools; center and chuck turning; the making of finished patterns; and enough elementary moulding to illustrate draft, parting, cores, etc.
2. **FORGING.** Exercises and practice in iron and steel forging, including such operations as drawing, bending, forming, upsetting, welding and the making and tempering of punches, drills, chisels, lathe tools and springs.



3. **FOUNDRY WORK.** Exercises and practice in tempering sand and preparing moulds of machine parts in the sand, core-making, melting iron and brass, and the pouring of castings.
4. **CHIPPING AND FILING.** Exercises and practice in vise work, including chipping in cast and wrought iron; surface filing, squaring, fitting, finishing, and the scraping of surface plates.
7. **CARPENTRY AND PATTERN MAKING.** Similar to Shopwork 1.
8. **CARPENTRY: CABINET WORK.** Exercises and practice in cabinet making including panelling, mitre and dovetail joints, etc.; use of power tools.
9. **ADVANCED PATTERN MAKING.** Continuation of pattern work of Shopwork 7.
11. **FORGING.** Similar to Shopwork 2.
12. **ADVANCED FORGING.** Tool making, tempering of taps, dies, cutters, etc.; annealing; case hardening; ornamental iron work, etc.; visits to shops.
13. **MACHINE WORK.** Exercises and practice in hand-turning in iron and brass on speed lathes; and straight and taper turning, boring, fitting, chucking, thread-cutting, etc., on engine lathes.
14. **MACHINE WORK.** Exercises and practice on the lathe, planer, shaper, drill press and milling machine, with use of small tools as drills, taps, dies, reamers, counterbores, etc.; construction of parts of actual machines.
15. **ADVANCED MACHINE WORK.** Exercises and practice on turret lathe, universal, surface and tool grinding machines, gear cutting, etc.
16. **ADVANCED MACHINE WORK.** The construction and use of jigs and templates; the accurate laying out of work; the duplication of parts, the production of work rapidly and economically, etc.
17. **ADVANCED MACHINE WORK.** The making and use of special tools and fixtures, standard plugs and collars, standard caliper and limit gauges; error limits in modern machine construction; methods of testing the accuracy of machine tools; etc.

#### SHOPWORK REQUIRED

NOTE -- The present time requirements in shopwork are given in the following table, but a revision of this schedule is likely soon to be made necessary by the introduction of a summer course of four weeks.

Number	Credit	Year	Term	Courses in	Number	Credit	Year	Term	Courses in
1	3	1	2	Ags.: Hort.: Ags. (short).	11	2	2	2	F. M.
2	3	2	2	Ags.: Hort.	12	3	2	3	Chem.: I. A.: Man. Tr.
3	2	2	1	M. E.: I. A. (short).	13	3	2	2	Clay-w'k (short): I. A. (short)
4	3	2	1	I. A.: Man. Tr.	14	3	3	3	Mining (short).
5	2	2	1	E. E.	15	3	4	1	Cer.
6	3	2	3	I. A.: Man. Tr.	16	3	3	3	I. A.: Man. Tr.
7	3	2	1	I. A. (short).	17	3	4	3	E. E.
8	3	2	2	I. A. (short).	18	3	2	2	I. A.: Man. Tr.
9	3	2	2	M. E.	19	3	2	2	I. A. (short).
10	3	1	3	Clay-work (short).	20	3	2	3	M. E.
11	2	2	1	Cer.	21	3	3	1	M. E.: E. E.
12	3	1	1	I. A. (short).	22	3	3	3	I. A.: Man. Tr.
13	3	2	1	Chem.: I. A.: Man. Tr.	23	3	4	1	I. A.: Man. Tr.
14	2	2	1	E. M.	24	4	3	2	M. E.
15	4	1	3	E. E.: M. E.	25	5	2	3	I. A. (short).
16	3	2	3	I. A.: Man. Tr.	26	3	4	2	I. A.: Man. Tr.
17	3	2	2	I. A.: Man. Tr.	27	3	4	3	I. A.
18	3	1	2	I. A. (short).					
19	2	2	1	E. E.					
20	3	2	1	M. E.					

## DEPARTMENT OF LATIN.

[UNIVERSITY HALL, Rooms 28, 29 and 39]

*Professor Derby, Associate Professor Hodgman, Assistant Professor Elden*

1. **LIVY OR CICERO.** Four times a week. First term.
2. **TERENCE: PHORMIO; PLAUTUS: TRINUMMUS.** Four times a week. Second term.
3. **CICERO OR LIVY.** Four times a week. Third term.
4. **CATULLUS. TACITUS. HORACE.** Four times a week. First term.
5. **HORACE: ODES; PLINY: LETTERS.** Four times a week. Second term.
6. **PROPERTIUS AND TIBULLUS.** Four times a week. Third term.
7. **TACITUS: HISTORIAE OR ANNALES** Three times a week. First term.
8. **JUVENAL.** Three times a week. Second term.
9. **MARTIAL.** Three times a week. Third term.
- \*10. **PLAUTUS.** Three times a week. First term.
- \*11. **CICERO: DE FINIBUS OR DE OFFICIIS.** Three times a week. Second term.
- \*12. **SENECA.** Three times a week. Third term.
13. **LUCRETIUS.** Three times a week. First term.
14. **CICERO: DE NATURA DEORUM.** Three times a week. Second term.
15. **HORACE: SATIRES AND EPISTLES.** Three times a week. Third term.
- \*16. **CICERO: RHETORICAL WORKS.** Three times a week. First term.
- \*17. **LATER LATIN WRITERS.** Three times a week. Second and third terms.
18. **TEACHERS' COURSE: CAESAR, CICERO AND VIRGIL.** Three times a week. Three terms.
19. **LATIN PROSE COMPOSITION.** Twice a week. Three terms.
- \*20. **ANTIQUITIES.** Twice a week. Three terms.
- \*21. **LATIN LITERATURE.** Twice a week, first and second terms.
- \*22. **LATIN PHILOLOGY.** Twice a week, third term.
23. **LINGUISTICS AND INSCRIPTIONS.** Twice a week. Three terms.
- \*24. **ADVANCED LATIN WRITING.** Twice a week. Three terms.
- \*25. **PRO-SEMINARY: PLAUTUS' CAPTIVI.** Three times a week. Three terms.
26. **PHARMACEUTICAL LATIN.** Four times a week. Three terms.

## DEPARTMENT OF LAW

[UNIVERSITY HALL]

*Professors Hunter, Randall, Kinkead, Page, Shauck, Collins, Knight, Butler.*

## FIRST YEAR

## FIRST SEMESTER

Elementary Law (Robinson, Walker and Blackstone).

\* Not offered in 1901-1902.

## SECOND SEMESTER

Agency (Mechem); Contracts (Bishop); Criminal Law (Hawley); Sales (Tiedeman); Torts (Cooley).

## SECOND YEAR

## FIRST SEMESTER

Bailments (Hale); Commercial Law (Tiedeman); Evidence (Underhill or Greenleaf); Pleading (Phillips).

## SECOND SEMESTER

Construction of Contracts (Jones); Partnership (Parsons); Real Property (Tiedeman); Wills (Schouler).

## THIRD YEAR

## FIRST SEMESTER

Constitutional Law (Black); Private Corporations (Taylor); Municipal Corporations (Tiedeman); Equity Jurisprudence (Fetter).

## SECOND SEMESTER

Ethics (Sharswood); Insurance (Richards); Negligence of Municipal Corporations (Jones); Suretyship (Baylies.)

## DEPARTMENT OF MATHEMATICS

[UNIVERSITY HALL, Rooms 39, 41, 43, office 45]

*Professor Bohannon, Associate Professor McCord, Associate Professor Boyd, Assistant Professor Arnold, Assistant Professor Swartzel, Assistant Professor Kuhn, Mr. Rasor, Mr. Travis*

1. **ELEMENTARY ALGEBRA.** Venable. Five times a week. First term.
2. **ELEMENTARY ALGEBRA.** Wentworth. Five times a week. First, second and third terms. This class is in charge of Professor Ray.
3. **PLANE GEOMETRY.** Venable. Five times a week. First term.
- 3a. **PLANE GEOMETRY.** Beman and Smith. Five times a week. Second term.
6. **ANALYTICAL MECHANICS AND STRENGTH OF MATERIALS.** Five times a week. Three terms. [Formerly Courses 6 and 7 in the Department of Mechanical Engineering.]
11. **DIFFERENTIAL EQUATIONS.** Edwards. Once a week. First term.
13. **SOLID GEOMETRY.** Venable. Five times a week. Second term.
14. **PLANE TRIGONOMETRY.** Loney. Five times a week. First term; also third term.
15. **ANALYTICAL AND SPHERICAL TRIGONOMETRY.** Loney, with notes on Spherical Trigonometry. Twice a week. Second term.
16. **COLLEGE ALGEBRA.** Taylor. Three times a week. Second term.
17. **PLANE ANALYTICS.** Loney. Five times a week. Third term.

18. **ANALYTICS AND DIFFERENTIAL CALCULUS.** Loney. Venable. Edwards. Five times a week. First term.
19. **DIFFERENTIAL CALCULUS.** Edwards. Five times a week. Second term.
20. **INTEGRAL CALCULUS.** Edwards. Five times a week. Third term.
21. **COLLEGE ALGEBRA.** Three times a week. First term.
22. **PLANE TRIGONOMETRY.** Three times a week. Second term.
23. **ANALYTICS AND CALCULUS.** Three times a week. Third term.
24. **PROBLEMS ON ALL PAST WORK.** Once a week. Three terms.
25. **ADVANCED MATHEMATICS.** Topics will be changed from year to year to meet the wishes of the students. Selections may be made from the following courses: (a) Advanced Calculus (*Picard, Houel*); (b) Differential Equations (*Johnson, Murray, Forsythe, Craig*); (c) Higher Plane Curves (*Salmon*); (d) Advanced Analytical Geometry (*Casey, Salmon*); (e) Analytical Geometry of Three Dimensions (*Chas. Smith, Frost, Salmon*); (f) Theory of Equations (*Burnside and Panton*); (g) Modern Higher Algebra (*Chrystal Salmon, Serret, Cole's Netto*); (h) Modern Geometry (*Cremona, Reye, Steiner, Von Staudt, Chasles*); (i) Determinants (*Muir*); (j) Elliptic Functions (*Weber, Halphen, Durege, Hermite, Greenhill, Briot and Bouquet*); (k) General Theory of Functions (*Forsythe, Harkness and Morley, Tannery, Weierstrass, Durege, Thomae, Biermann*); (l) Potential Functions (*Clausius, Riemann, Dirichlet, Peirce*); (m) Mathematical Theory of Electricity (*Mascart and Joubert*); (n) Higher Geodesy (*Clarke, Helmert, Jordan*); (o) Spherical Harmonics (*Byerly, Ferrers, Heine*); (p) Mathematical Optics; (q) History of Mathematics; (r) Theory of Groups (*Netto, Burnside*). Credit, one to ten hours.

## DEPARTMENT OF MECHANICAL ENGINEERING

[HAYES HALL, Office Room 11]

*Professor Magruder, Associate Professor Hitchcock, Mr. Frost*

3. **MECHANISM.** Lectures and recitations on the principles of mechanism and mechanical movements. Five times a week. Second term.  
The accurate laying out of movements, embodying the principles of mechanism. Twice a week. Third term.
12. **EXPERIMENTAL ENGINEERING LABORATORY.** Twice a week. First term.
14. The same. Four times a week. Second term.
15. The same. Three times a week. Third term.
17. The same. Three times a week. Second term.
18. **MACHINE DESIGN.** Recitations on Unwin's Machine Design, with lectures on American practice. Five times a week. First and second terms.
19. **MACHINE DESIGN.** Practical applications of the principles of machine design. Five drawing periods a week. Third term.
21. **THESIS WORK.** Five times a week. Third term.
22. **TIMBER AND MASONRY.** Lectures on the construction of foundations and structures in timber and masonry. Five times a week. (The last three-fifths of Second term.
23. **MATERIALS OF CONSTRUCTION.** Lectures on the materials used in architecture and building construction, and laboratory exercises on their properties. Four times a week. First term.



24. **EXPERIMENTAL ENGINEERING LABORATORY.** Three times a week. First and second terms.
25. The same. Five times a week. Third term.
26. **STEAM MACHINERY.** One lecture a week on the care of steam engines and boilers, pumps and injectors, and of ammonia refrigerating machinery.
27. The same. Five times a week. First term.
28. The same. Twice a week. First or third term.
29. The same. Three times a week, first term, and twice a week, second term.
30. The same. Twice a week, second term or third term.
31. **HYDRAULIC MACHINERY.** Recitations and lectures on pumping machinery. Three times a week. Third term.
32. **MECHANICAL ENGINEERING AND POWER PLANTS.** A descriptive study of steam and gas engines, boilers, pumps, injectors and other machinery used in Plants generating power. Five times a week. Third term.
33. **STEAM ENGINES AND BOILERS.** A detail study of steam using and steam generating machinery. Five times a week. First term.
34. **THERMODYNAMICS.** Lectures and recitations on the transmutations of heat and mechanical energies in steam, gas and air engines, and in air and ammonia compressors, together with a study of the tests of ideal and actual engines and of their indicator diagrams; the flow of gases through pipes and orifices. Five times a week. Second term.

## DEPARTMENT OF METALLURGY AND MINERALOGY

[CHEMICAL HALL, Office Room 5]

*Professor N. W. Lord, Mr. Somermeir, Mr. Ford*

2. **MINERALOGY.** Lectures. Three times a week. Third term.
3. **DETERMINATIVE MINERALOGY.** Laboratory course in practical determination of minerals by physical and chemical tests. Each student is furnished with a set of apparatus, and works under an instructor's inspection. Brush and Penfield's *Determinative Mineralogy* is used as a manual. Five times a week. Third term. Must be preceded by Course 2.
4. **METALLURGY.** A course of lectures upon fuel and its uses, iron and steel, copper, lead, gold and silver, their properties, tests, ores and details of the methods of reduction. The lectures are supplemented by a careful study of references to standard works and journals. Five times a week. First and second terms.
5. **METALLURGICAL LABORATORY.** Lectures and laboratory work. Laboratory practice in the analysis of iron and steel, fuel and slags, and the assays of lead, copper and zinc ores by wet methods, using approved methods as practiced in technical laboratories of metallurgical works. Course 5 must be preceded by Chemistry, Courses 7 and 12. Five laboratory periods a week. Three terms.
6. **ASSAYING.** Laboratory work. Practical work in the assaying of gold, silver and lead ores, by furnace methods. Oral instruction, with reference to standard books on assaying. Five laboratory periods a week. Second term.

7. **METALLURGICAL CONSTRUCTION.** Practice in the designing of furnaces and other metallurgical machinery, including detail drawings and estimates. Three times a week. Second term.
8. **ORE DRESSING AND COAL WASHING.** Lectures. Instruction in the methods of concentrating and enriching ores and fuels by mechanical means. Lectures with reference to standard books and various papers in technical journals. Twice a week. First term.
9. **MINERAL CHEMISTRY.** Lectures upon fire-damp, mine explosions, explosives, boiler waters, poisonous gases in mines, the ores of its metals, coal and coke. Five hours a week. Third term.

## DEPARTMENT OF MILITARY SCIENCE AND TACTICS

[THE ARMORY]

*Captain George L. Converse, U. S. A.*

1. **MILITARY DRILL.** Four times a week, from the opening of College till the Thanksgiving vacation; twice a week from Thanksgiving till April first; four times a week till the close of the school year. Required of all able-bodied male students during first and second years of their course.
2. **TACTICS.** Lectures and recitations. Twice a week. Second term.
3. **ART OF WAR.** Lectures and recitations. Twice a week. Second term.

## DEPARTMENT OF MINE ENGINEERING

[CHEMICAL HALL, Room 29]

*Professor Ray, Mr. Ford*

1. **MINE SURVEYING.** Lectures and field practice. This is similar to Course 4, but more elementary. The same text is used. The students have more practice in the drawing room. Five times a week. First term.
2. **VENTILATION AND HAULAGE.** Lectures illustrated by experiments and maps of mines and models when possible, tests by safety lamps and anemometers, and methods of air distribution in coal mines. Five times a week. Second term.
3. **MINE OPERATING.** A course of lectures and practical instruction in mine book-keeping and accounts, cost of working, etc., particularly adapted to Ohio coal mining. Five times a week. Third term.
4. **MINE SURVEYING.** Field Practice in the use of instruments for surface and underground surveys. Full notes are taken, and maps and plans made in the drawing-room. Davies's *Surveying*, by Van Amringe, is used as a text-book. Five times a week. First term.
5. **MINE ENGINEERING.** Lectures. Mine operating, mining machinery, ventilation, shaft-sinking, working out deposits, etc. Constant reference is required to the standard works and to the leading technical journals, with practice in designing mine plants, draughting and estimates. Five times a week. Three terms.
6. **PLANS AND SPECIFICATIONS.** Five times a week. Third term.

## PHARMACY

[CHEMICAL HALL, Rooms 13 and 12]

*Professor Kauffman, Assistant Professor Landacre, Assistant Professor Dye*

6. **PHARMACY.** General pharmaceutical processes. Lectures three times a week. First term.
7. **PHARMACY.** United States Pharmacopeia official preparations. Lectures twice a week. Laboratory practice daily. Second term.
8. **DISPENSATORIES.** Official preparations. Lectures twice a week. Laboratory practice daily. Third term.
9. **PHARMACEUTICAL CHEMISTRY.** Unofficial preparations. The National Formulary. Lectures twice a week. Laboratory practice daily. First term.
10. **EXTEMPORANEOUS PHARMACY.** Prescription practice. Lectures once a week. Laboratory practice three times a week. Second term.
11. **GENERAL PRACTICE.** Lectures twice a week. Dispensing practice daily. Prescription practice daily. Third term.
12. **MATERIA MEDICA.** Official drugs and classification. Three times a week. First term.
13. **MATERIA MEDICA.** Official and unofficial drugs. Three times a week. Second term.
14. **MATERIA MEDICA AND THERAPEUTICS.** Synthetic Products. Poisons and Antidotes. Three times a week. Third term.
15. **PHARMACEUTICAL ASSAYING.** Three times a week. First term.
16. **METHODS OF MANUFACTURE.** Three times a week. Second and third terms.
17. **GENERAL PHARMACY.** Two lectures, three laboratory periods a week. Third term.

## DEPARTMENT OF PHILOSOPHY

[UNIVERSITY HALL, Rooms, 33, 49, 50 and 51]

*Professor Scott, Assistant Professor Haines, Mr. Davies*

## I. UNDERGRADUATE.

15. **GENERAL PSYCHOLOGY.** Four times a week. First term.
16. **LOGIC.** Four times a week. Second term.
17. **ETHICS.** Four times a week. Third term.

Courses 15, 16 and 17 are required in the third year of the general Courses in Arts, Philosophy (except the English Course in Philosophy), Education, and Commerce and Administration. They are preliminary to all elective studies in these courses; but students intending to take their major in Philosophy may secure a larger number of electives by taking Courses 15, 16 and 17 in the second year.

The instruction is given by text-book, lectures, and collateral reading.

18. **GENERAL PSYCHOLOGY.** Three times a week. First and second terms.
19. **LOGIC.** Three times a week. Third term.

Courses 18 and 19 are required in the second year of the English Course in Philosophy and in the third year of the Course in Science. They are preliminary to all elective studies in these courses.

The instruction is given by text-book, lectures, and collateral reading.



20. **ETHICS.** Three times a week. First term.
21. **HISTORY OF MODERN PHILOSOPHY.** Three times a week. Second and third terms.

Courses 20 and 21 are required in the third year of the English Course in Philosophy. In the former the nature and ground of right, the nature and authority of conscience, the nature and freedom of the will, the nature and ethical significance of desire, the various theories of the moral end, and the application of moral principles to the moral life, are the leading topics of discussion. In Course 21 the aim is to present a comprehensive view of the field and to trace the historical development of philosophic thought during the modern era. One thesis will be required each term.

22. **HISTORY OF ANCIENT AND MEDIEVAL PHILOSOPHY.** Three times a week. First term.
21. **HISTORY OF MODERN PHILOSOPHY.** Three times a week. Second and third terms.

Course 22 is elective by students who have pursued either Courses 15, 16 and 17 or Courses 18 and 19. Course 21, which is required after Courses 18, 19 and 20, is elective after Course 15, either with Courses 16 and 17 or following them.

For aim and methods see Course 21 above.

## II. UNDERGRADUATE AND GRADUATE

23. **CONSPPECTUS OF PHILOSOPHY.** Three times a week. First term.
24. **THEORY OF KNOWLEDGE.** Three times a week. Second term.
25. **METAPHYSICS.** Three times a week. Third term.

Course 23 proposes a logical survey of the whole field of Philosophy, determining the content, boundaries, and relations of its several departments, and investigating as far as time permits the conceptions and problems of each. It, with Courses 24 and 25, is elective on the same conditions as Courses 20 and 21; but it is desirable that those courses should precede or at least accompany them. Külpe's *Introduction to Philosophy* or a similar book will be used as a text, with collateral use of Parlsén, Ladd, and Stuckenberg.

Courses 24 and 25 constitute a continuous study in fundamental Philosophy, the former concerning itself primarily with the subjective, and the latter with the objective, aspects of the problems considered. In the former the main topics will be the nature and laws of thought, the categories, the relations of thought and knowledge, of knowledge and belief, and of knowledge and reality. In the latter the special problem will be the nature of reality. This will lead to inquiries concerning substance, both matter and soul, cause, and God.

Theses will be required during the year, not less than one for each term.

26. **ADVANCED PSYCHOLOGY.** Twice a week. Three terms.

This course is intended for students who may wish to carry their study of systematic Psychology beyond the limits of the elementary Courses 15 and 18. It will include a study of general psychological theory, with an examination and criticism of leading systems.

27. **PHILOSOPHY OF SCIENCE.** Twice a week. Three terms.



Course 27 has for its purpose to investigate the postulates and concepts of physical science. It will include such subjects as causality, mechanism and teleology, the existence and nature of matter and mind, the relation between them, and man's place in nature. Assigned readings, with reports and discussions, in Hume, Mill, Lotze, Spencer and others. One thesis will be required each term.

28. **PHILOSOPHY OF RELIGION.** Twice a week. Three terms.  
This course includes a study of the nature of religion, the foundations of religious belief, the relations of philosophy to religion, and religious problems, such as the existence and nature of God, the problem of evil, and human immortality. Assigned readings, with reports and discussions, in Spinoza, Kant, Fichte, Schleiermacher, Lotze, Pfleiderer, Martineau and others. One thesis will be required each term.
29. **PHYSIOLOGICAL AND EXPERIMENTAL PSYCHOLOGY.** Three times a week. Three terms.
30. **ADVANCED PHYSIOLOGICAL AND EXPERIMENTAL PSYCHOLOGY.** Twice a week. Three terms.  
Not offered in 1901-1902.
31. **PLATO.** Twice a week. Three terms.
32. **ARISTOTLE.** Twice a week. Three terms.  
Only one of these two courses will be given each year, but it will be Course 31 or 32, as the class may elect. The work will consist of readings from English translations of the author chosen and from commentaries and criticisms such as those of Grote, Nettleship, and Pater on Plato, and Grote, Lewes, Grant, and Davidson on Aristotle.
33. **DESCARTES AND SPINOZA.** Three times a week. First term.
34. **LOCKE AND LEIBNITZ.** Three times a week. Second term.
35. **BERKELEY, HUME, AND REID.** Three times a week. Third term.
36. **KANT, FICHTE, SCHELLING, AND HEGEL.** Three times a week. Three terms.  
Not offered in 1901-1902.  
Courses 33, 34 and 35 constitute one year's work, and will alternate with Course 36. The first three are preparatory to the last and will be given in 1901-1902. Assigned portions of the leading works of the thinkers named will be studied and discussed, and an attempt will be made to obtain a clear conception of the author's system as a whole, and of his position on particular important problems of philosophy. One thesis will be required each term.
37. **LATER GERMAN PHILOSOPHY.** Three times a week. Three terms.
38. **RECENT AND CURRENT PHILOSOPHY.** Three times a week. Three terms.  
These two courses will not be given in 1901-1902.
39. **PSYCHOLOGICAL SEMINARY.** Two hours a week. Three terms.  
Not offered in 1901-1902.
40. **ETHICAL SEMINARY.** Two hours a week. Three terms.  
This course will be devoted in 1901-1902 to the historical and critical study of one of more of the great problems of Ethics. The work will consist of assigned readings, papers, and discussions.
41. **PHILOSOPHICAL SEMINARY.** Two hours a week. Three terms.  
Not offered in 1901-1902.

The work in this course will consist of reports on assigned readings, with papers and discussions in the field of general Philosophy. It will involve a special study of questions to which the student has been introduced in Courses 23, 24 and 25.  
Not offered in 1901-1902.

## DEPARTMENT OF PHYSICS

[UNIVERSITY HALL, Rooms 10, 14, 23 and 24]

*Professor Thomas, Professor Cole, Assistant Professor Kester.*

1. **ELEMENTARY PHYSICS.** Recitations and experimental lectures. Five times a week. Text: Carhart & Chutes' "Elements of Physics."
2. **MECHANICS AND HEAT, ELECTRICITY AND MAGNETISM, SOUND AND LIGHT.** Lectures and recitations. Three times a week. Three terms.
3. **PHYSICS.** Extension of Course 2, with practice in solution of problems. Twice a week. Three terms.
4. **ELECTRICITY AND MAGNETISM.** Lectures and recitations. Three times a week. First term.
5. **PHYSICAL LABORATORY.** Elementary manipulation. Length, mass and time measurements. Work in density, elasticity and in heat. Four times a week. First, second and third terms.
6. **PHYSICAL LABORATORY.** Theory and practice of magnetic and electrical measurement, including the testing and standardizing of instruments; conductivity of conductors; insulation, capacity and resistance of insulated conductors and cables; temperature co-efficients; commercial measuring and testing instruments; strength and distribution of magnetic fields, magnetic moments, permeability; work in light including optical constants; spectroscopy; photometry of gas, electric and other lights. Five times a week. First and second terms.
7. **PHYSICAL LABORATORY.** Twice a week. Second term. Three times a week. Third term.
9. **PHYSICAL LABORATORY.** A second year's work in the Physical Laboratory. Three to five hours a week. Course 9 must be preceded by Course 6 or Course 7.
11. **PHYSICS.** Three times a week. Three terms.
12. **LABORATORY.** Three to five times a week.
13. **LABORATORY.** Three to five times a week. Course 15 must be preceded by Course 12.
14. **THEORETICAL PHYSICS.** Five times a week. Lectures and assigned readings. Graduate and advanced undergraduate course.
15. **LABORATORY.** Five hours a week. To be preceded by Courses 12 and 13.

## DEPARTMENT OF RHETORIC AND ENGLISH LANGUAGE.

[UNIVERSITY HALL, Rooms 38, 40, 42, 44, 55]

*Professor Denney, Assistant Professors Graves, McKnight, Allen, Mr. Bohn,  
Mr. Abbott*

## I. RHETORIC AND COMPOSITION.

1. **PARAGRAPH WRITING AND ANALYSIS OF PROSE.** Twice a week through the year. The course includes two exercises weekly, in the writing of short themes, the outlining and composition of essays and speeches, and the study of illustrative texts for structure and form. Text-book, Scott and Denney's Paragraph Writing.
2. **EXPOSITORY WRITING.** Twice a week. First term. In this course, practice is afforded in composing various types of the essay, specimens of which are analyzed by the class. Text-book, Buck and Woodbridge's Expository Writing. Course 2 must be preceded by Course 1.
3. **BRIEF MAKING AND WRITTEN ARGUMENTATION.** Twice a week. Second and third terms. The course includes a study of the principles of logical analysis, evidence, and argumentation; practice in writing briefs of noted speeches (Baker's Specimens) and in preparing original briefs with written arguments. Course 3 must be preceded by Course 1.
4. **SHORT STORY WRITING.** Three times a week. First term. Lectures on story construction, with plot-analysis of selected narratives and a study of their plan, purpose and diction; practice in composition, with individual and class criticism. Course 4 must be preceded by Course 2.
6. **POETICS.** Three times a week. Second term. Lectures on the history and theory of poetry; prescribed readings and reports; a study of English meters, with exercises in verse-writing to illustrate the principal forms. Text-book, Gummere's Handbook of Poetics, with Aristotle's Theory of Poetry for reference. Course 6 must be preceded by Course 2.
8. **THEORIES OF STYLE.** Three times a week. Third term. A discussion of Lewes's Principles of Success in Literature, and the essays on style by Spencer, DeQuincey, Arnold, Stevenson, and Pater. Lectures on the Principles of Style. Course 8 must be preceded by Course 2.
10. **ADVANCED COMPOSITION.** Individual work is planned in this course for upper classmen who desire to continue practice in one or more of the forms of composition studied in preceding courses, or who seek criticism of articles intended for publication in newspaper or magazine. Each student will meet the instructor at stated periods for criticism and assignments. Course 10 may be undertaken at the beginning of any term. Credit one hours, limited to three terms.
12. **PROBLEMS IN RHETORIC AND CRITICISM.** Two hours a week, through the year. This course begins with a short series of lectures on the Development of Rhetorical and Critical Theory, after which each student undertakes the thorough investigation of some one problem in rhetoric and criticism, reporting results at the meeting of the seminary each week. Course 12 is designed for undergraduates who are making their theses in this department. It is open also to graduate students.



13. **THE TEACHING OF ENGLISH.** Once a week through the year. A discussion of principles and methods, plans for courses, and the reports of the English Conferences. Each member of the class will present a paper each term upon a subject assigned for investigation. Course 13 is open to advanced undergraduates and to graduate students. Persons engaged in teaching are admitted to this course on presenting auditors' tickets.

## II. ENGLISH LANGUAGE

15. **HISTORY OF ENGLISH AND DEVELOPMENT OF PROSE.** Twice a week through the year. Text-books, Emerson's Brief History of the English Language, and Garnett's English Prose.
16. **OLD ENGLISH PROSE AND POETRY.** Twice a week through the year. Text-book, Sweet's Anglo-Saxon Reader. At first, attention will be paid to the purely linguistic features, the relations of Early English to the kindred Teutonic languages; later will be studied the beginnings of English literature in prose and poetry.
17. **BEOWULF AND MINOR OLD ENGLISH POETRY.** Twice a week through the year. Open to advanced undergraduates and to graduate students. Course 17 must be preceded by Course 16. Course 17 alternates with Course 18. Course 17 is not given in 1901-1902; it is offered for 1902-1903 and alternate years thereafter.
18. **MIDDLE ENGLISH PROSE AND POETRY.** Twice a week through the year. First will be studied the development in sound and in orthography; later, the transition in literature, the evolution of modern verse, and the beginnings of romantic story. Open to advanced undergraduates and to graduate students.

## III. GRADUATE WORK

20. **GRADUATE COURSES.** Under this number, courses are arranged at the beginning of each year to meet the needs of individual students desiring to pursue graduate work along either of two lines: (a) Rhetorical Theory and Criticism; (b) Old and Middle English Philology. Credit two to ten hours.

## IV. PUBLIC SPEAKING

21. **ESSENTIALS OF ORAL DISCOURSE.** Once a week through the year. Course 21 should accompany Course 1.
23. **DEBATES.** Twice a week, first and second terms. Course 23 must be preceded by Course 3. Limited to twenty members.
24. **EXTEMPORE SPEAKING.** Twice a week. Third term. Course 24 must be preceded by Course 3.
25. **ORATORY.** Twice a week through the year. Analysis of noted orations; the writing and delivering of original orations. Course 25 must be preceded by Courses 2 and 3. Limited to twenty members.



## ROMANCE LANGUAGES AND LITERATURES

[UNIVERSITY HALL, Rooms 35 and 34]

*Professor Bowen, Associate Professor Bruce, Assistant Professor Batchelder*

## I. FRENCH

NOTE — Courses 1 and 2 in French must precede all others (except Course 3).

1. **ELEMENTARY FRENCH.** Four hours a week throughout the year. Four sections. Grammar: Grandgent's *Essentials*. Reader: Whitney's (Parts I and II), or Laboulaye's *Contes bleus*. Historical and narrative prose; one or more prose comedies. In this course the study of the language is taken up from the beginning. Stress is laid at first upon the acquisition of a correct pronunciation, after which the entire energy of the student is directed toward the attainment of a full and accurate reading knowledge of the language. Grammar and composition are made to contribute to this end. Sight reading is emphasized.
2. **MODERN FRENCH LITERATURE.** Four hours a week throughout the year. Two sections. The study of the literature as such is now taken up. The work of the year covers a survey of four subjects: (1) *Contes*; (2) Novels (Balzac); (3) Lyric Poetry (Bowen's *Modern French Lyrics*); (4) Romantic Drama (Hugo). Prose Composition (Bouvet). Lectures supplement the work; private reading required; systematic attention given to syntax and idiom. Open to those who have completed Course 1, or who have received credit for French as an entrance subject.
3. **SCIENCE READING.** Four hours a week throughout the year. Luquiens' *Popular Science*, followed by other similar works. Prose Composition (Bouvet). A course introductory to the vocabulary of scientific literature. Intended solely for students of the College of Engineering, and required of all students in that College who offer French as their entrance language.
4. **FRENCH COMEDY.** Three hours a week. First term. Study of the growth of French Comedy, with work centering upon Molière (four plays), Regnard and Beaumarchais. Lectures and collateral reading.
5. **THE DRAMAS OF CORNEILLE.** Three hours a week. Second term. Lectures and readings. Critical study of *Le Cid*, *Horace*, *Cinna* and *Polyeucte* (or *Nicomede*).
6. **SEVENTEENTH CENTURY PROSE.** Three hours a week. Third term. Critical study of Descartes, Pascal, Bossuet and others (Warren's Selections), supplemented by lectures.
7. **ADVANCED PROSE COMPOSITION.** One hour a week throughout the year. Intended for advanced students who desire special training on the practical side of the language.
8. **LITERARY CRITICISM IN FRANCE.** Two hours a week. First term. Readings and lectures. Selections from Sainte Beuve, Faguet, Lemaitre and others.
9. **RECENT FRENCH PROSE.** Two hours a week. Second term. Rapid reading with lectures. Critical study of some of the leading prose writers of the present, such as Bourget, Daudet, Loti, Zola and others.
10. **PRACTICE IN SPEAKING AND WRITING FRENCH**—Based on Daudet's *Stories*. Two hours a week. Third term. Students wishing to elect this course must have the consent of the instructor in charge.

11. **FRENCH TRAVEL-WRITERS.** Two hours a week. First term. Readings and lectures. Scenes of travel from Gautier, Hugo and Dumas. Alternates with Course 8. Not offered in 1901-1902.
12. **EIGHTEENTH CENTURY PROSE.** Two hours a week. Second term. Readings and lectures. Selections from Voltaire (ed. Cohn and Woodward) or others. Alternates with Course 9. Not offered in 1901-1902.
13. **ADVANCED CONVERSATIONAL PRACTICE.**—Based on Stories of Coppée and Maupassant. Two hours a week. Third term. Students wishing to elect this course must have the consent of the instructor in charge. Alternates with Course 10. Not offered in 1901-1902.
14. **FRENCH SEMINARY A.** Three hours a week throughout the year. Open only to fourth-year students of French, who have completed Courses 1, 2, 4, 5, 6 and 7, or an equivalent. All students who elect their Major Study in Romance Languages must take this course, or the following one, in their fourth year. Given biennially; not offered in 1901-1902. The subjects for the year 1902-1903 will probably be: (1) French Tragedy (Racine and Voltaire) and (2) Chateaubriand and the Precursors of Romanticism. Toward the close of the year several lectures will be given on: Methods of Teaching French and the Teacher's Equipment.
15. **FRENCH SEMINARY B.** Three hours a week throughout the year. The same conditions as in Course 14. Given biennially. For 1901-1902 the subjects will be: (first half-year) French Literature Before the Seventeenth Century, with special study of *la Chanson de Roland*, general survey of the Old French period, and critical study of Montaigne; (second half-year) the Development of the French Novel.

## II. ITALIAN

1. **ELEMENTARY ITALIAN.** Two hours a week throughout the year. Grammar (Grandgent's or Edgren's), and Bowen's *First Italian Readings*. Comedy (Goldoni), and introduction to Dante (selections from *Inferno*). Students contemplating this course are advised to postpone such election until they have completed French I, or its equivalent.

## III. SPANISH

1. **ELEMENTARY SPANISH.** Four hours a week throughout the year. Grammar (Edgren's or Loiseaux's), and Reader; modern stories and plays; composition and conversation.
2. **ADVANCED SPANISH.** Two hours a week throughout the year. The modern novel; classical drama; Don Quixote; with lectures; advanced composition and conversation. Open to those who have completed Course I. Offered in 1901-1902, and thereafter.

## VETERINARY MEDICINE

[VETERINARY HOSPITAL AND TOWNSHEND HALL]

*Professor White, Dr. Lavery, Dr. Frederick, Dr. Brumley*

11. **VETERINARY ANATOMY:** Osteology. Lectures illustrated with skeletons and anatomical preparations. Dissections. Five times a week. First term.
12. **MYOLOGY, SPLANCHNOLOGY.** Practical dissections and demonstrations on cadavers. Five times a week. Second term.

13. **ANGIOLOGY AND NEUROLOGY.** Lectures illustrated by drawings, in the dissecting room, and on anatomical models. Five times a week. **Third term.** Books recommended for reference and study: Strangeway's *Veterinary Anatomy* (new edition); Chauvau's *Comparative Anatomy*; McFay-dean.
14. **GENERAL PATHOLOGY AND MORBID ANATOMY.** Lectures four times a week. First term. Text-book: Green's *Morbid Anatomy*.
15. **THEORY AND PRACTICE OF VETERINARY MEDICINE.** Sporadic, non-infectious diseases. Three times a week. Second term.
16. **THEORY AND PRACTICE OF VETERINARY MEDICINE.** Three times a week. Third term.
17. **DISEASES OF THE COW.** Three times a week. Second term.
18. **SURGICAL DISEASES. INFECTIOUS AND CONTAGIOUS DISEASES.** Three times a week. Four terms. Text-book: Friedberger and Froehner.
19. **CLINIC.** Lectures. Three times a week. Six terms.
20. **THEORY AND PRACTICE.** Lectures and demonstrations on the use of antiseptics in wound healing; suturing and bandaging; use of local and general anæsthesia, etc. Three times a week. First term.
21. **THEORY AND PRACTICE.** Lectures; illustrated by practical demonstrations, by drawings, on clinical cases. Head and neck. Three times a week. Second and third terms.
22. **THERAPEUTICS.** Three times a week. Third term.
23. **OBSTETRICS.** Three times a week. Second term.
24. **GENERAL SURGERY.** Three times a week. First term.
25. **PRACTICE IN OPERATING.** Three times a week. Second term.
26. **HORSE SHOEING.** Three times a week. First term.
27. **MEAT INSPECTION.** Lectures and recitations. Four times a week. Second term.
28. **VETERINARY ANATOMY.** Continuation of 27. Five times a week. First term.
29. **GENERAL PATHOLOGY.** Five hours a week. Second term.
30. **SPECIAL PATHOLOGY.** Five times a week. Third term.
31. **CANINE DISEASES.** Three times a week. First term.
32. **CANINE DISEASES** Three times a week. Third term.
33. **OPHTHALMOLOGY.** Twice a week. Third term.
34. **PATHOLOGY LABORATORY.** Three times a week. Second and third terms.
36. **PATHOLOGY LABORATORY.** Three times a week. First term.

## DEPARTMENT OF ZOOLOGY AND ENTOMOLOGY

[BIOLOGICAL HALL, Rooms 3, 4, 7, 8 and 9]

*Professor Osborn, Assistant Professor Hine, Assistant Professor Landacre,  
Mr. Ball.*

1. **INVERTEBRATE AND VERTEBRATE.** Three times a week. Invertebrate, first and second term; Vertebrate, third term. This course includes a general discussion of groups, dissection of types and an outline of classification. Especial attention is given to forms of economic importance either from their detrimental effects on crops, stock, etc., or from their utility in various industries or as domesticated species.



2. **COMPARATIVE ANATOMY OF VERTEBRATES.** Three or five times a week. Three terms. One hour quiz; two or four periods laboratory. Weidersheim's *Comparative Anatomy of Vertebrates* is used as a basis.
3. **ECONOMIC ENTOMOLOGY.** Insects of Forest, Orchard and Garden. Five times a week. Third term. A detailed study of injurious species intended particularly for students of Horticulture. The work includes field studies, collections, reports on observation, etc.
4. **ECONOMIC ENTOMOLOGY.** Twice a week, through the year. This Course must be preceded by Course 1. A systematic study of the group of insects with special reference to injurious and beneficial species. A foundation is laid for special study in Entomology. Preparation of collections, essays, life history studies and use of remedial measures along with laboratory studies on general anatomy and class recitations and lectures.
7. **SYSTEMATIC AND PRACTICAL ENTOMOLOGY.** Two lectures and one laboratory period a week. Third term.
8. **PARASITES OF DOMESTIC ANIMALS.** A lecture course devoted to the principal parasitic animals affecting domestic animals intended especially to meet the needs of those who intend to give particular attention to stock raising. Once a week. First term.
9. **SPECIAL ENTOMOLOGY.** Studies of life-histories, collection and classification in selected groups. Field work and lectures. Four times a week. First term.
10. **SPECIAL ENTOMOLOGY.** Studies of winter condition of Insects, Insecticides, Insecticide machinery, Methods of preparing insect illustrations, Green-house pests, etc. Four times a week. Second term.
11. **SPECIAL ENTOMOLOGY.** Investigations of selected groups or species. Lectures on insect legislation, distribution, natural enemies, special methods of control, etc. Four times a week. Third term.  
Courses 9, 10 and 11 are intended as practical courses in entomological research adapted especially for those who wish to give special attention to this branch with reference to future work in Agriculture or Horticulture and to furnish a preparation for those who have in view work as entomological investigators in experiment stations or as teachers in agricultural schools. They may be taken as graduate courses if not elected earlier or continued as special lines of research during a graduate course embracing other special subjects.
12. **GROSS ANATOMY OF THE FROG.** Three or five times a week. First term. Ecker's "Anatomy of the Frog," and Huxley and Martin's "Practical Biology" used as guides.
13. **MINUTE ANATOMY OF THE FROG.** Three or five times a week. Second term. Continuation of 12, but devoted particularly to a study of the tissues.
14. **EMBROLOGY OF THE FROG.** Three or five times a week. Third term.
15. **INVERTEBRATE MORPHOLOGY. I.** Three or five times a week. First term. Devoted to lower Invertebrates, especially Protozoa and Caelenterata. Parker and Harwell, Lang, McMunick, Shipley and other works are used for reference.
16. **INVERTEBRATE MORPHOLOGY. II.** Three or five times a week. Second term. Will usually be devoted to Worms and Mollusks. References as in 15.
17. **INVERTEBRATE MORPHOLOGY. III.** Three or five times a week. Third term. Usually devoted to Arthropoda. Above references and Packard's *Text-book of Entomology*.



18. **INVERTEBRATE EMBRYOLOGY.** Three or five times a week. Three terms. Korschelt and Heider used as a basis.
19. **VERTEBRATE EMBRYOLOGY: KARYOKINESIS, ETC.** Three or five times a week. First term. Hertroig, Marshall, Balfour, Minot, Foster and Balfour are used as references.
20. **VERTEBRATE EMBRYOLOGY: CHICK AND MAMMAL** Three or five times a week. Second and third terms. Foster and Balfour used as a guide.
21. **COMPARATIVE NEUROLOGY.** Three or five times a week. Three terms. Includes study of brain and spinal cord in all classes of vertebrates. Edinger Lectures on the Central Nervous System is followed and numerous treatises and special papers consulted.
22. **CYTOLOGY.** Three or five times a week. Three terms. Hertwig, "Cell and Tissues," and Wilson, "The Cell in Development and Inheritance."
23. **ENTOMOLOGY.** Three or five times a week. Three terms. Advanced Practical Course for those wishing to investigate some special groups of Insects or fit themselves for professional work in Entomology.
24. **ORNITHOLOGY.** Twice a week. Three terms. Laboratory work on Morphology, Ecology and classification of Birds.

# ENROLLMENT

1900-1901

## COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE

## GRADUATE STUDENTS

Gilmore, William H., B. Sc. (Agr.).....	Millersport
Hazen, Charles Ryerse, B. Sc.....	Cleveland
(Case School of Applied Science.)	
Mooney, Charles Napoleon, B. Sc. (Agr.).....	Milan
McCall, Arthur Gillett, B. Sc. (Agr.).....	McGaw
McCallum, Raymond, B. Ph.....	Dayton
Naret, William Frazier, B. Sc. (Agr.), M. A.....	Morgantown, W. Va.
(Morgantown University.)	
Stewart, Charles Benjamin, B. Sc. (Agr.).....	Marcy
Van Norman, Hubert E, B. Sc.....	Lafayette, Ind.
(Michigan Agricultural College.)	

## UNDERGRADUATE STUDENTS

	Course	Course Hours	Credit Hours	Home Address
Abbott, George Franklin.....	Agr. S.	98	99+41	Medina
Andrews, Harry Sherman.....	Dairy	...	...	Dean
Armstrong, Clara, B. Sc.....	(Dom. Sci.)	...	...	Columbus
Armstrong, Gertrude.....	Dom. Sci.	205½	35½	Bannock
Arney, Samuel Hurd.....	Dairy	...	...	Lancaster
Arnold, Margaret Belle.....	Special	...	33	Wellsville
Atherton, William Thomas.....	Agr.	204½	108½	Carrollton
Bailey, Alva Caleb.....	Dairy	...	...	Tacoma
Baldwin, Ethel Florence.....	Dom. Sci.	205½	103½	Columbus
Barcus, Eliza.....	Special	...	15	Columbus
Batterson, Annie Elizabeth.....	Dom. Sci.	205½	50½	Columbus
Bauman, Christian William.....	Dairy	...	...	Axtel
Beale, Harry Glenn.....	Agr.	200	155	Mt. Sterling
Beatty, Madge.....	Dom. Sci.	205½	80	Columbus
Belden, Herbert Lucius.....	Agr.	200	140	Middlefield
Beneker, Robert Edgar.....	Agr.	204½	122½	Cincinnati
Benjamin, Ray Calvin.....	Agr. S.	100	32	Pierpont
Bigger, Paul Breese.....	Dairy	...	...	Tiffin
Biggin, Orlo L.....	Dairy	...	...	Vernon
Bowser Earl Levi.....	Agr. S.	100	53	West Unity
Boynton, Frank J.....	Agr. S.	100	56	Haverhill
Bratton, Alice May, B. Sc.....	Dom. Sci.	...	...	Columbus
Breckler, Leo Ambrose.....	Agr.	204½	53½	Defiance
Breeze, Clarence Nye.....	Agr.	200	107	Lima
Bugby Morris O.....	Agr.	204½	105½	Kingsville
Cahill, Verrill W.....	Agr.	98	95+2	Tiro
Campbell, Clara Naomi.....	Dom. Sci.	205½	24½	Columbus
Carril, Pedro Leon del.....	Agr.	204½	50½	San Juan, S. A.
Case, Claude Henry.....	Agr. S.	98	91	Hudson
Church, James Scott.....	Agr.	204½	100½	Palmyra
Churchman, Moris Harper.....	Agr. S.	100	48+3	Jerome
Clapp, Ernest Talbot.....	Agr. S.	100	77+9	Chatham

	Course	Course Hours	Credit Hours	Home Address
Clark, Herman Alfred.....	H. & F.	206	162	Medina
Clark, Ollie Dwight.....	Agr.	204½	65½	Wheat
Clawson, Lucy Blanche.....	Dom. Sci.	205½	105½	Keana
Coberly Edward D.....	Agr.	204½	72½	Georgesville
Codding, Harry Wyler.....	Dairy	...	...	Granger
Commons, Horace Joseph.....	Dairy	...	...	Centerville, Ind.
Conradi, Albert Frederick, B. Sc.....	Agr.	...	...	New Bremen
Cotton, Edwin Charles.....	H. & F.	206	147½	Elyria
Crabb, James Byrl.....	Agr.	204½	122½	Mt. Sterling
Crawford, Mary B., B. Sc.....	(Dom. Sci.)	...	...	Blaine
Creamer, Jesse Carlton.....	Agr. S.	98	98+13½	Jeffersonville
Crumrine, George Ray.....	Agr. S.	100	38	Nova
Darling, Mabel Cordelia.....	Special	...	18	Cardington
Davis, Ella Augustus.....	Dom. Sci.	205½	67	Galena
Davis, William Woolson.....	Dairy	...	...	Newark
Day, Albert Edward.....	Agr.	200	160½	Mt. Carmel
Derby, Florence, B. Sc.....	(Dom. Sci.)	...	...	Columbus
Ditto, Theodore Walter.....	Agr.	200	140½	Delphos
Dixon, Eva Nicholson.....	Dom. Sci.	206	137	Columbus
Dresbach, Mary, B. Sc.....	Dom. Sci.	...	...	Columbus
Dunlap, S Arthur.....	Agr. S.	100	9+3	Williamsport
Dunlap, Frederick.....	H. & F.	210½	89	Chillicothe
Dunn, Hattie Franklin.....	Special	...	45	Columbus
Duval, Harding Hays.....	Dairy	...	...	Wellsburg, W. Va.
Dwyer, Horace Earl.....	Agr. S.	98	78	Greenfield
Eckman, Otto Leo.....	Agr. S.	100	63	Winchester
Ensminger, Harriet Margaret.....	Special	...	2	Columbus
Erven, Orrin William.....	Agr. S.	98	91+2	Grand Rapids
Faurer, Lorenzo Donaldson.....	Agr. S.	100	51	Ridgeville
Ferguson, Ollie.....	Agr.	204½	84½	Steubenville
Fisher, Milo Eddison.....	Dairy	...	...	Chili
Folsom, James Alfred.....	Agr. S.	100	59	Franklin Furnace
Foster, Chester Glenn.....	Agr.	204½	31½	London
Foster, John Cook, Jr.....	Agr.	204½	47½	Columbus
Foster, Emma Warwick.....	Dom. Sci.	205½	88½	Higbys
Fox, Louis Henry.....	Dairy	...	...	Garland
Frame, Mabel Florence.....	Special	...	4½	Washington
Frank, John Nickolas.....	H. & F.	210½	74½	North Amherst
Frink, Clarence Benjamin.....	Dairy	...	...	Lupton, Colorado
Galehouse David William.....	Agr.	200	142	Doylestown
Gault, Thomas Chambers.....	Dairy	...	...	Fernwood
George, Harry John.....	Agr. S.	100	12	Beaver Falls, Pa
Gerdeman, John Fred.....	Dairy	...	...	Ottawa
Gibson, Herbert R.....	Dairy	...	...	Camp Chase
Grau, Maud Elizabeth.....	Dom. Sci.	205½	58	Lucas
Guy, Earl William.....	Agr. S.	100	46	Mechanicsburg
Hamilton, Frank Edward.....	Agr.	200	142	Brownsville
Hamilton, Harry Hoge.....	Agr. S.	100	60	Brownsville
Hanna, Charles Mitchell.....	Agr. S.	98	98+7	Tiro
Hanna, Hortie Leroy.....	Dairy	...	...	Garrettsville
Harper, Merritt, B. Sc.....	Agr.	...	...	Grove City
Hatfield, Clifford Christian.....	Agr.	204½	77½	Lebanon
Hathaway, Ralph.....	Agr.	204½	27½	Scipio Siding



	Course	Hours	Credit Hours	Home Address
Hayden, Cassius Clay, B. S.....	Agr.	...	...	Oakdale
Herrick, Hobert C.....	Dairy	...	...	Wellington
Hess, Flora Louise.....	Special	...	107	North Columbus
Hill, Mamie Fay.....	Dom. Sci.	206	153	Columbus
Hill, George Baxter.....	Agr. S.	100	46	Piqua
Hollister, Ruth Amanda.....	Dom. Sci.	205½	48½	Galion
Holloway, Carrie .....	Dom. Sci.	205½	71	Columbus
Holt, David C.....	Dairy	...	...	Galloway
Hoover, Clarence Boal.....	Agr.	204½	97½	Columbus
Hoover, Susan Corwin.....	Special	...	45½	Columbus
Hosmer, Victor .....	Agr. S.	100	20	Parkman
Hudson, James Frank.....	Dairy	...	...	Rootstown
Hunt, Claude Percival.....	Dairy	...	...	Bennetts Corners
Hynes, Clifton Edwin.....	Dairy	...	...	Nacissa, Pa
Innis, Byron Schofield.....	Agr. S.	100	81+3	Wagram
Irwin, Arthur Milton.....	Agr. S.	100	80+16½	Parkman
Jefferson, John Howard.....	Agr. S.	100	42	Madison Mills
Jennings, Otto Emery.....	Agr.	200	143	Olena
Johnson, Homer Edward.....	Dairy	...	...	East Orwell
Jones, Lloyd.....	Agr.	200	127½	Columbus
King, Michael Albert.....	Dairy	...	...	Jackson Center
Klein, Edith May.....	Special	...	11	Columbus
Ladrach, Lewis Frederick.....	Dairy	...	...	Rogersville
Langdon, Elmer .....	Agr. S.	98	81+17	Sabina
Lanman, Faith Robinson.....	Dom. Sci.	205½	106½	Columbus
Linberg, Charles Guy.....	Dairy	...	...	Erie
Lindley, Luly .....	Special	...	55	Fredericktown
Long, Frank C.....	H. & F.	206	122	West Sonora
Long, Jean Paul.....	Agr.	204½	54½	Columbus
Mallow, Harry Campbell.....	Agr. S.	100	71+3	Washington C. H.
Mangold, E Frank.....	Dairy	...	...	Sonora
Mark, Clara Gould.....	Dom. Sci.	205½	51½	Milo
Marshall, Ida .....	Dom. Sci.	206	147	Hemlock
Mears, William Holt.....	Agr. S.	100	84+3	Moscow
Meek, Elizabeth Laing.....	Special	...	20	Columbus
Mellen, Otis E.....	Dairy	...	...	Streetsboro
Meyers, Ada Lucy.....	Dom. Sci.	205½	34½	Columbus
Miller, Edward .....	Dairy	...	...	Springerton
Miller, Morris B.....	Dairy	...	...	Springboro
Minns, Edward Russell.....	Agr. S.	100	56+12	Lodi
Morton, Charles Owen.....	Dairy	...	...	Burton
McAlister, Lee Paden.....	Agr. S.	100	60+15½	Thornville
McClellan, John Arthur.....	Dairy	...	...	Cable
McClelland, Chester Arthur.....	Agr.	204½	113	Terrace Park
McLaughlin, Grace .....	Dom. Sci.	205½	53	Columbus
McMahon, Mary Gertrude.....	Dom. Sci.	205½	102½	Columbus
McMillan, Fred D.....	Dairy	...	...	Granger
Neill, Nelson Prentice, B. Sc.....	Agr.	...	...	Venice
Nelson, Fred Walker.....	Agr. S.	100	78+½	Salem Center
Neptune, Orrin Bird.....	Dairy	...	...	Loudonville
Newcomb, Howard Robinson.....	Dairy	...	...	Burton
Noice, Blaine G.....	Agr. S.	100	17	Ashville

	Course	Course Hours	Credit Hours	Home Address
Oliver, Robert Evin.....	Agr.	204½	47	Chillicothe
Osborne, Harry Lester.....	Agr. S.	100	85+21½	Chardon
Paddack, Benjamin .....	Dairy	...	...	Hartwell
Patterson, Andrew Wylie.....	Dairy	...	...	New Concord
Perry, Elma Brooks, B. Sc.....	Dom. Sci.	...	...	Troy
Perry, John Cole, B. Sc.....	Agr.	...	...	Columbia Station
Pessell, J Bruce.....	Dairy	...	...	Fayette
Poindexter, Charles Cardoza.....	Agr.	204½	104½	Park's'bg, W.Va.
Portman, Herbert Rudolph.....	Dairy	...	...	Birmingham
Postle, Stuart A.....	Dairy	...	...	Camp Chase
Pratt, Jean Paul.....	Agr.	204½	17½	Huntington
Quiroga, Modesto.....	Agr.	204½	56½	San Luis, S. A.
Reyes, Julio .....	Agr.	204½	30	Bue's Ayres, S.A.
Rogers, Truman .....	Agr. S.	100	...	Cardington
Ross, John Longbon.....	Dairy	...	...	North Eaton
Ruhl, George Pressley.....	Dairy	...	...	Fairview, Pa.
Ruhlen, La Motte.....	Agr.	200	163	Plain City
Rutan, David William.....	Dairy	...	...	Mechanicsburg
Rutan, Hiram Edgar.....	Dairy	...	...	Mechanicsburg
Schwendeman, Frank Jacob.....	Dairy	...	...	Lowell
Senter, Pearl.....	Special	...	67	Shepard
Sharp, Prentice D.....	Agr. S.	100	...	East Liberty
Shaw, Edward Lee.....	Agr.	200	157	Newark
Sheldon, Helen Griswold.....	Special	...	62	Shepard
Shellabarger, Ira Garfield.....	Agr. S.	100	34	Garland
Sherwood, Mary Gertrude.....	Dom. Sci.	94½	39½	Columbus
Shields, Jeannette .....	Special	...	49½	Denver, Col.
Sigrist, John Larkum.....	Agr.	200	180½	Congress
Siler, Leonard Edgar.....	Dairy	...	...	W. Manchester
Smith, Wilford B.....	Agr. S.	98	98+33½	Chesterhill
Snyder, Addison Hogan, B. Sc.....	Agr.	...	...	Tacoma
Spohn, Louis Narcissus.....	Dairy	...	...	Easton
Stahl, Price Ewing.....	Agr. S.	100	84+2½	Jewett
Steward, Alice Ione.....	Dom. Sci.	205½	48½	Columbus
Steward, Effie Edith.....	Dom.Sci.S.	94½	44½	Marcy
Sullivan, Fannie Augusta.....	Dom. Sci.	205½	43½	Rex
Tangemann, Clara Margaret.....	Dom. Sci.	205½	52½	New Bremen
Tarpning, Clifton Carmel.....	Dairy	...	...	Plain City
Thomas, Frank Leslie.....	Agr.	204½	51½	Chesterhill
Tobias, Deane Abram.....	Agr.	204½	61½	Bucyrus
Townsend, Melville West.....	Dairy	...	...	Motlinsville
Twitchell, Lee Downs.....	H. & F.	210½	83	Mansfield
Waite, Arthur Thompson.....	Dairy	...	...	North Ridgeville
Walker, Rolla E.....	Agr. S.	100	40	Attica
Wampler, Milton Eugene.....	Agr. S.	100	89+3	Dayton
Washburn, Wayne.....	Agr. S.	100	63	Greenwich
Watkins, Salem Francis.....	Dairy	...	...	Granger
Waters, Harry Mitchell.....	Agr. S.	100	13+4	Columbus
Weaver, Samuel James.....	Agr.	204½	48	Leipsic
Weber, Sophia Francis.....	Dom. Sci.	205½	109½	Columbus
Welch, Fred Clair.....	Dairy	...	...	Ft. Wayne, Ind.
Wentz, John Earl.....	Agr. S.	100	48+4½	Bucyrus

	Course	Hours Course	Hours Credit	Home Address
West, James Clyde.....	Agr. S.	100	55	St. Paris
Wheeler, Thomas Leroy.....	Agr.	204½	77½	Chillicothe
White, Garret Brown.....	Agr.	204½	55½	Bucyrus
White, Jessie .....	Dom.Sci.S.	94½	...	Columbus
White, Oscar Emil.....	Agr. S.	100	41	Payne
Whitehead, Albert .....	Agr.	204½	...	Pataskala
Williamson, Frances Glade.....	Dom.Sci.S.	94½	56	Columbus
Wilson, Sherman.....	Dairy	...	...	Clarksville
Wilson, Samuel Moore.....	Agr. S.	100	...	Bloomingsburg
Wyman, Thomas Bright.....	H. & F.	210½	...	Painesville
Yeazell, Frances Ward.....	Dom. Sci.	205½	41	Berkeley, Cal.
Zehring, Edgar Levi.....	Agr.	204½	35	Germanstown
Zollinger, Jacob Christopher.....	Agr. S.	100	34	Thornville

## COLLEGE OF ARTS AND PHILOSOPHY

### GRADUATE STUDENTS — 43

	Home Address
Abbot, Ray A., B. Ph., 1900.....	Columbus
Armstrong, Edna, B. Ph., 1897.....	Columbus
Arnold, Charles Lincoln, B. Sc., 1890.....	Columbus
Ball, Elmer Darwin, B. Sc., M. Sc. (Iowa State College, M. Sc., 1894)....	Fort Collins, Colo.
Bentley, Sarah Irina, A. B. (Ohio Wesleyan University).....	Columbus
Bohn, Frank A., Ph. B., 1900.....	Olmsted Falls
Bohn, William Edward, B. A. (German Wallace College), M. A., 1900....	Olmsted Falls
Burr, Harriet G., A. B., 1896.....	Worthington
Connor, Alice Marie, B. Ph., 1900.....	Columbus
Connor, Elen Josephine, B. Ph., 1900.....	Columbus
Converse, Edward Jasper, B. A., 1886 (B. D., Yale University).....	Columbus
Coursault, Jesse Harliaman, B. A., 1893; M. A., 1898.....	Columbus
Doney, Carl Gregg, B. Sc., 1891 (L. L. B., 1893, Delaware).....	Columbus
Dubois, Wilbur L., B. Sc., 1900.....	Columbus
Enderlin, Louis Charles, A. B (Curry College).....	Allegheny, Pa.
Fischer, Walter, B. Sc., 1897.....	Columbus
Flynn, Maud, B. Sc., 1896.....	Columbus
Gore, Herbert Charles, B. Sc. (University of Michigan).....	Chicago, Ill.
Hamilton, Francis Marion, B. A.....	Zanesville
Ingram, Imogene, B. Ph., 1897.....	Columbus
Jeffrey, Maud Dorothy, B. Ph., 1895.....	Columbus
Keogle, Anna Brown, B. Ph., 1895.....	Columbus
Kellerman, Ivy, B. A., 1898; M. A. 1899 (Cornell University).....	Columbus
Klein, David, B. Ph., 1900.....	Columbus
Kimberly, Charles Hubbell, B. Sc., 1900.....	North Fairfield
Kirby, Harriet R., B. A., 1898.....	Columbus
Linville, Clarence Philander, B. Sc., 1900.....	Urbana
Long, Joseph, B. A. (Ohio Wesleyan University).....	Columbus
Moore, Edgar Howard, B. Sc., 1900.....	Columbus



	Home Address
Nichol, Gertrude Belle, B. Ph., 1899.....	Columbus
Parmenter, William Watt, B. A., 1900.....	Mt. Vernon
Pitts, Grace Lenore, B. Ph., 1900.....	Columbus
Pulling, Margaret Glage, B. Ph., 1900.....	Columbus
Raymond, Maude, B. Ph., 1899.....	Columbus
Rice, Mary Washington, A. B., 1900.....	Columbus
Sayre, Charles B., B. A., 1900.....	Columbus
Schaff, Mae B., B. Ph., 1900.....	Columbus
Smyser, Selden F., B. Ph., 1892 (De Pauw).....	Columbus
Travis, John F., B. A., 1900.....	Green Camp
Tyler, Fred J., B. Sc. (Agr.), 1900.....	Perry
Williams, Herbert Oswald, B. A., 1894.....	Columbus
Williams, Mrs. Mary.....	Columbus
Williams, Sarah Dimond, B. L. (Bethany College).....	Columbus

## UNDERGRADUATES — 439

	Course	Course Hours	Credit Hours	Home Address
Altstaetter, Eda Henrietta.....	L. Ph.	190½	55½	Galion
Andrews, John Davis.....	L. & J.	148½	25½+9	Hamilton
Arnold, Mary Louise.....	Arts	190½	58½	Columbus
Atweel, Elmer Ellsworth.....	Special	...	12½	Mt. Perry
Bacon, Perley.....	E. Ph.	193½	...	Columbus
Baker, Helen Woods.....	L. Ph.	190½	18	Columbus
Baldwin, Earl Grimes.....	E. Ph.	193½	40½	Zanesville
Baldwin, Mabel Dennison.....	Special	...	20½	Columbus
Ball, Mrs Elmer Darwin.....	Special	...	33	Ft. Collins, Col.
Ball, Ernestine Faye.....	Arts	190½	85½	Columbus
Ball, Danforth Ewers, B. Sc.....	...	...	...	Columbus
Banning, Daisy.....	Special	...	...	Belle Center
Bard, Harry Lester.....	L. Ph.	190½	29½	Cleveland
Barrows, Edward Morley.....	L. & J.	99	45	Columbus
Bartram, Charles Edwin, Jr.....	L. & J.	148½	24	Columbus
Bartram, Faith Alberta.....	Special	...	39	Columbus
Beer, James Anderson.....	Special	...	163	Ashland
Beery, Harry Reber.....	Arts	190½	73½	Canal Winchester
Beery, Mary.....	L. Ph.	190½	28½	Peebles
Bellows, Gertrude Halm.....	E. Ph.	192	142½	Columbus
Bennett, Sarah Catherine.....	Special	...	54	Columbus
Berryman, Clara Maud.....	Special	...	4½	Madison, Wis.
Biebl, Andrew J.....	Science	193½	79½	Gibboy, Minn.
Bigelow, Bernard Barton.....	L. Ph.	190½	97½	Findlay
Bittner, William Pitt.....	E. Ph.	192	159	Sandusky
Bonnet, Alvin Cook.....	Arts	190½	97½	Columbus
Booth, Carl Howard.....	L. Ph.	190½	94½	Columbus
Booth, Cora Vrooman.....	L. Ph.	189	84	Columbus
Booth, George Hamilton.....	E. Ph.	193½	37½	Columbus
Bowen, Samuel Cecil.....	Science	193½	88½	Ruskin, Va.
Bowles, John Porter.....	Com.&Ad.	169½	131	Columbus
Bradford, Frances Elizabeth.....	E. Ph.	193½	78	Columbus
Brewer, Josiah W.....	E. Ph.	193½	...	New Vienna



	Course	Course Hours	Credit Hours	Home Address
Bridge, Effie Irene.....	Arts	190½	73½	Columbus
Brinkerhoff, Josiah.....	L. & J.	148½	33	Utica
Brooks, Stanley Grange, B. Sc.....	.....	.....	.....	Columbus
Brown, Albert Marion, B. Ph.....	.....	.....	.....	Wauseon
Bryant, William Cheney.....	L. Ph.	189	138	Kings Creek
Buck, Ralph William.....	L. Ph.	190½	91½	Cardington
Bugbey, Harry Homer.....	Special	...	38	Waverly, Ill.
Bulen, Elwood Joseph.....	Special	...	20¼	Columbus
Burnet, Whittier.....	L. Ph.	189	153	Waynesville
Burns, Sarah.....	L. Ph.	190½	50½	Columbus
Butcher, Frederic Eric, B. Ph.....	.....	.....	.....	Buckland
Butler, Blanche Woodruff, B. A.....	.....	.....	.....	Wellsville
Cannon, Anna Cathrine, B. Ph.....	.....	.....	.....	Columbus
Carpenter, Jessie Marie.....	E. Ph.	192	160½	Columbus
Carson, Nellie Eliza.....	L. Ph.	189	177½	Harrisburg
Chamberlain, Elizabeth Belle.....	L. Ph.	190½	45	Columbus
Chamberlain, Robert Marcus, B. Sc.....	.....	.....	.....	Columbus
Chaney, James William.....	E. Ph.	192	168	Columbus
Clagett, Arthur E.....	M. L. Ph.	189	154½	Dayton
Clapp, Katharine B.....	L. Ph.	189	150	Norwalk
Clark, John T.....	Science	193½	40½	Louisville, Ky.
Clark, Maude Harriet.....	E. Ph.	193½	9¼	Columbus
Clevenger, Charles Henry.....	Science	192	148½	Fletcher
Clevenger, Joseph Franklin.....	Science	192	142½	Fletcher
Coad, James Earl.....	E. Ph.	193½	38¼	St. Lewisville
Coates, Elmer William.....	Arts	190½	73½	Pomeroy
Cockerill, Orville Porter.....	E. Ph.	192	168	Washington C. H.
Coe, Bertha L.....	Special	...	64½	North Columbus
Coe, Eltoy Perkins.....	E. Ph.	193½	48	Garrettsville
Colgan, Lillian Katharine.....	Special	...	121½	Columbus
Collins, Walter Scott, B. A.....	.....	.....	.....	Columbus
Compton, Edward Cass.....	Special	...	79½	Coshocton
Cone, John Charles.....	E. Ph.	193½	88½	Hamilton
Connelley, Augusta.....	L. Ph.	189	156	Columbus
Connors, John Leo.....	L. & J.	148½	75¾+3	Columbus
Cooke, Levi.....	Arts	190½	36	Columbus
Corner, Edith Carlisle, B. Ph.....	.....	.....	.....	Columbus
Cott, Mary Ellen.....	Special	...	...	Columbus
Courtright, Elizabeth Pauline, B. A.....	.....	.....	.....	Columbus
Courtright, Stella Van, B. Ph.....	.....	.....	.....	Columbus
Cox, Lewis Clark.....	Science	193½	37½	Xenia
Coy, William Stacey.....	Arts	190½	97½	Columbus
Craig, Francis Miron.....	Special	...	92	Columbus
Crout, Ray Durand.....	Special	...	54	Columbus
Cunningham, Charles Gilman, B. Ph.....	.....	.....	.....	Fostoria
Davidson, Ruth Emily.....	L. Ph.	190½	69	Chicago, Ill.
Davis, Bernice Campbell.....	Special	...	6	Columbus
Davis, Bessie Esther.....	M. L. Ph.	190½	49½	Columbus
Davis, Franklin Levi.....	M. L. Ph.	190½	37	Columbus
Davis, William Edgar.....	L. Ph.	189	146	Columbus
Dean, Ethel Sourbray.....	L. & J.	148½	91½+12	Columbus
Delay, Frank.....	L. Ph.	190½	43½	Jackson

	Course	Hours	Credit Hours	Home Address
Demorest, Ralph H.....	L. Ph.	190½	37½	Marysville
De Nune, Ethel.....	Arts	190½	120	Columbus
Derby, Alice G. B. Ph.....		...	...	Columbus
Derby, Walter Jauney.....	L. Ph.	190½	49½	Columbus
Dickinson, George Codwice, B. A.....		...	...	Columbus
Dieterich, Henry Claude.....	Special	...	37½	Piketon
Diller Waldo Edgar.....	E. Ph.	193½	25½	Bluffton
Dillin, Ernest Stewart.....	Arts	190½	37½	Coshocton
Dolson, Benjamin Reimmund.....	E. Ph.	193½	88½	Lancaster
Donovan, Dennis Aloysius.....	E. Ph.	192	165	Columbus
Dowdell, Ida Isabelle.....	Special	...	18¾	Columbus
Dowler, Edwin Ernest.....	L. Ph.	190½	16½	Washington C. H.
Drake, Ethel.....	Special	...	...	McConnellsville
Drobisch, Alma.....	E. Ph.	193½	64½	Columbus
Durbin, Samuel Clyde, B. Ph.....		...	...	McConnellsville
Dyer, Werter Clarkson.....	Arts	190½	91½	Plano
Early, Katherine Belle.....	L. Ph.	190½	49½	Columbus
Eastman, Katherine.....	L. Ph.	190½	88½	Columbus
Eastman, Maude Evangeline.....	L. & J.	149½	36	Ottawa
Echols, Lenore Carrel.....	Arts	190½	48	Columbus
Eckhardt, Carl Conrad.....	M.L. Ph.	189	156½	Toledo
Eisele, Mary Pearl.....	L. Ph.	190½	58½	Columbus
Elsworth, Mabel.....	E. Ph.	193½	39	Woodstock
Erb, Theresa.....	L. Ph.	190½	49½	Columbus
Evans, William Weldon.....	E. Ph.	192	94½	Columbus
Ewalt, Clara Converse, B. Ph.....		...	...	Columbus
Farrar, Morton.....	Special	...	31½	London
Finke, Emil Henry.....	L. & J.	148½	79½	New Bremen
Flory, Charles Henry.....	Science	193½	102	Arcanum
Foster, Horace Wood.....	Arts	190½	36	Hudson
Foster, Ralph Akin.....	Com.&Ad.	196½	37½	Columbus
Frazier, Henry Clinton.....	L. & J.	148½	...	Zanesville
Frazier, Robert Lewis.....	Special	...	10¼	Gnadenhutzen
Fuller, Mabel.....	L. & J.	148½	17¼	Columbus
Fuller, Lucia Bierce.....	Special	...	27	Bombay, India
Game, Francis Harvey.....	E. Ph.	192	112	Canal Winchester
Gardner, Blanche.....	Arts	190½	37½	Columbus
Gardner, Earl Douglas.....	Com.&Ad.	196½	36	Columbus
Garman, Susan Editha.....	E. Ph.	193½	110½	Dayton
Gauch, James Arlando.....	Arts	189	147	West Manchester
Gayman, Jesse Atwell.....	Special	...	...	Canal Winchester
Glass, Melle Wilson.....	Arts	190½	61½	Columbus
Glasscock, Albert Stone, Jr.....	Com. & Admr.	196½	31½	Washington C. H.
Godown, Harry Clayton.....	Special	...	¾	Hilliard
Gordon, Earl Augustus.....	Prep.Med.	150	102	Junction City
Graham, Reuben Jacob, B. Ph.....		...	...	Northup
Grant, Ruth Matilda.....	L. Ph.	190½	55½	Columbus
Greener, Gussie Howe, B. Ph.....		...	...	Columbus
Greenwood, Helen Tuttle.....	L. Ph.	190½	37½	Columbus
Griggs, Robert Fiske.....	Science	193½	124½	Columbus
Guilford, Frank Ross.....	E. Ph.	193½	40½	Wauseon

	Course	Course Hours	Credit Hours	Home Address
Guittard, Claude B.....	Special	111		New Bedford
Haeseler, Anna M.....	L. Ph.	190½	49½	Springfield
Hagenbach, George Edwin.....	L. Ph.	190½	90	Urbana
Hahn, George Philip.....	Com.&Ad.	169½	45	Napoleon
Hall, Wyman Leonard.....	L. & J.	148½	14½	Columbus
Hambleton, Ethel Ada, B. Ph.....				Columbus
Handshy, Howard Monroe.....	Special	6		Zanesville
Harbine, Sarah Smith.....	E. Ph.	193½	120	Xenia
Hard, Ansel Shallcross.....	L. & J.	148½	59½	Bowling Green
Hare Russell Ingman.....	E. Ph.	193½	30½	Marysville
Harshman, John Burnett.....	L. Ph.	190½	39½	Alpha
Hartford, Martha Dudley.....	L. Ph.	189	141	Atlanta, Georgia
Hauk, Will Comrie, B. A.....				South Charleston
Headley, Sanford Alphonso.....	E. Ph.	193½	103½	Jacksonville
Heller, Mrs. Daisy.....	Special			Columbus
Henderson, Frank David.....	L. & J.	148½	17½+6	Watkins
Hengst, James McCleary.....	Arts	190½	37½	Lancaster
Hensel, Donald Dean.....	Com. & Admr.	196½	157½	Eaton
Herrick, Sara Ethel.....	E. Ph.	192	174	Wellington
Hill, Horace Chester.....	L. & J.	148½	¾	Mt. Sterling
Hirsch, Rudolph, B. Sc.....				Columbus
Hite, Bertha.....	Special	72		Columbus
Hoffhine, John.....	Arts	190½	49½	Frankford
Hoffhines, Ralph Eugene.....	Special			Columbus
Holcomb, Harry John, B. A.....				Columbus
Hollister, Mary Fuller.....	L. Ph.	190½	37½	Galion
Holmes, William B Gleason.....	Science	193½	37½	Braddock, Pa.
Hommon, Harry Britton.....	M.L. Ph.	190½	73½	Marble Cliff
Hoepes, Carl Wood.....	Science	193½	24	Marysville
Hoover, Edna Brown.....	Special	40½		Columbus
Hopkins, Clara M.....	E. Ph.	192	144	Columbus
Hopkins, Bertha Marie.....	L. Ph.	189	144	Columbus
Hopkins, Edith Estelle.....	L. Ph.	189	147	Columbus
Horton, Joseph Ramon.....	L. & J.	148½	48+6	Tippecanoe City
Hosterman, Harley C.....	E. Ph.	193½	79½	Springfield
Houghton, Henry Spencer, B. Ph.....				Columbus
Howard, Lillian Curtis.....	Arts	190½		Columbus
Huddleson, Mabel Lee.....	Special	26		Columbus
Hudson, Clara Putnam.....	E. Ph.	192	139½	Middleport
Huling, Frank.....	Arts	190½	84	Columbus
Hungelmann, Arthur.....	Science	192	160½	Columbus
Hunt, Mary Fulton, B. Ph.....				Columbus
Hunt, Edward Renick.....	Special			Columbus
Hunter, Anna Eliza.....	M.L. Ph.	189	106½	Columbus
Hunter, Joseph Symmes, B. A.....				Seven Mile
Huntington, Edith.....	Special	33		Columbus
Hurst, Lulu Kate.....	Special	31½		Piketon
Jackson, Clifford Webster.....	Arts	190½	31½	Columbus
Jackson, Elmer Collins.....	L. & J.	148½	2½+2	Columbus
Jackson, Gertrude See.....	L. Ph.	190½	49½	Columbus
Jacoby, Mrs. S. C.....	Special	102		Columbus

	Course	Course Hours	Credit Hours	Home Address
Jacoby, Ethelwyn .....	Special	...	75	Columbus
Jennings, Elma .....	M.L. Ph.	189	150	Eaton
Jennings, William Silver.....	Science	193½	42½	Eaton
Johnson, Gertrude .....	L. & J.	148½	...	Lakeside
Jones, Daniel C.....	E. Ph.	192	144	Jackson
Jones, John William.....	E. Ph.	192	184½	Jackson
Jordan, Homer Garfield.....	Special	...	81	Chillicothe
Jotter, Ernst Victor.....	E. Ph.	193½	33½	Monroe
Justice, Charles Lloyd.....	Arts	189	112½	Leipsic
Kauffman, Henrietta Christine, B. Ph. ....	...	...	...	Columbus
Kauffman, Margaret Glenn, B. Ph.....	...	...	...	Columbus
Keiser, Forest Le Grand.....	Science	193½	69	Bryan
Kennedy, May .....	L. Ph.	190½	25½	New Holland
Kern, Blanche May.....	L. Ph.	190½	49½	Columbus
Kerr, Floyd Ellis.....	L. & J.	148½	46½	Tippecanoe City
Kerr, May Lizzie.....	E. Ph.	193½	76½	Rushville, Ill.
Kimball, Mabel Fawn.....	Special	...	29½	Woodstock
King, Bernice .....	Arts	190½	72	Columbus
Kirk, George Barlow, B. A.....	...	...	...	Columbus
Knight, Margaret Amanda.....	Arts	190½	91½	Columbus
Knox, John Dorsey.....	M.L. Ph.	190½	43½	Homeworth
Kohl, Clayton Charles, B. Ph.....	...	...	...	Perrysburg
Kohr, Paul Homer.....	Arts	190½	100½	Columbus
Korst, Anna Katherine.....	M.L. Ph.	190½	37½	Chillicothe
Krout, Wiliam Clifford.....	E. Ph.	193½	26½	Van Wert
Laylin, Clarence Dewey.....	L. & J.	148½	55½	Norwalk
Lentz, Florence, B. Ph.....	...	...	...	Marysville
Leonard, Hannah Margaret.....	L. Ph.	190½	78	Columbus
Lisle, Thomas G.....	Com.&Ad.	196½	100½	Columbus
Livingston, Paul .....	Special	...	22½	Seagrove
Loechler, Elsa .....	L. Ph.	190½	57	Columbus
Loomis, Homer Leslie.....	Arts	190½	49½	Columbus
Lorbach, David J.....	Arts	190½	27	Waverly
Loren, Mary MacMillen.....	Special	...	68	Columbus
Loughry, John Larison.....	L. & J.	148½	52½	Marysville
Lyon, Maud Eloise.....	Special	...	66	Westfield, N. Y.
Lyons, Katherine Rose.....	Special	...	¾	Columbus
Lytle, George Winfield.....	Special	...	12	Waterville
MacAdam, Lida Allison.....	Special	...	24	Worthington
Mack, Egbert Hiram.....	E. Ph.	193½	106½	Sandusky
Magly, George J.....	Special	...	58½	Columbus
Magley, Florence Marie.....	E. Ph.	193½	64½	Columbus
Magruder, John .....	Special	...	38¾	Columbus
Maish, Carrie Lunetta.....	Arts	190½	49½	Columbus
Malone, James Bernard.....	L. & J.	148½	49½	South Charletson
Mark, Mary Louise.....	Arts	190½	100½	Columbus
Mark, Robert Matthew.....	Arts	190½	49½	Milo
Marriott, Robert Henry.....	Science	192	160½	Richwood
Marshall, Margaret .....	Special	...	39	Flint
Martin, Franklin Ewing.....	M.L. Ph.	190½	57	Columbus
Martin, William Kookken.....	L. Ph.	190½	94½	Lancaster
Martz, Velorus, B. A.....	...	...	...	Columbus



	Course	Course Hours	Credit Hours	Home Address
Matthews, Max Moses.....	E. Ph.	193½	132	Vinton
Maxwell, Vernon Claypoole.....	L. & J.	148½	57	Toledo
Mead, Caroline Annis.....	M.L. Ph.	189	138	Columbus
Mead, Charles Searing.....	Science	193½	55½	Columbus
Medbery, Olive.....	L. Ph.	190½	15	Reynoldsburg
Medbery, Roston.....	Arts	190½	49½	Columbus
Melvin, Floyd Jay.....	Special	...	20½	Forestville, N Y.
Merrick, Lawrence Hildreth.....	Arts	190½	81½	Zanesville
Metz, Walter Charles.....	Science	193½	49½	Newark
Miesse, Frank H.....	M.L. Ph.	190½	132	Chillicothe
Miller, Charles Reed.....	E. Ph.	192	136½	Bellville
Miller, Cornelia Williams.....	L. Ph.	189	135	Columbus
Miller, Edith Mary.....	E. Ph.	193½	40½	New Paris
Miller, Frederick Augustus, B. Ph.....	.....	...	...	Columbus
Miller, Paul Scott.....	Science	193½	90½	Marion
Mills, Donald P.....	Special	...	102	Norwalk
Mills, Glendora.....	L. Ph.	189	142½	Marysville
Mitchell, Lynn Boal.....	Arts	190½	115½	Piqua
Mitzenberg, Allena May, B. Ph.....	.....	...	...	Columbus
Mitzenberg, Fannie Katheryn.....	L. Ph.	190½	97½	Columbus
Mock, Marcia Inez, B. Ph.....	.....	...	...	Columbus
Molloy, Mary Aloysia.....	L. Ph.	190½	85½	Sandusky
Moore, Clarence L. E., B. Sc.....	.....	...	...	Washington C.H.
Morgan, Roy.....	M. L. Ph.	189	148½	Greenland
Morse, Max Withrow.....	Science	193½	91½	London
Morton, Max De Los.....	M. L. Ph.	190½	100½	Ashtabula
Murie, Frederick John.....	Arts	189	144	Youngstown
Mull, Ernest Clinton.....	L. & J.	148½	73½+6	Lebanon
Mumma, Marion W, B. Sc.....	.....	..	...	Dayton
Murdock, George Washington, B. Ph..	.....	...	...	Durango, Col.
McAllister, Earl Saddler.....	E. Ph.	192	166½	Columbus
McAlpine, Maud.....	Special	...	46½	Columbus
McCall, Elmer Sheridan.....	E. Ph.	193½	18	Rockwood
McCampbell, Eugene Franklin.....	Science	193½	49½	Marysville
McClure, Roy Donaldson.....	Science	193½	49½	Columbus
McDonald, Joseph Sylvester, B. Ph.....	.....	...	...	Rendville
McDowell, James Keen.....	L. Ph.	190½	109½	Columbus
McGugin, Elizabeth Winifred.....	L. Ph.	190½	103½	Olive Furnace
McKinley, Mary Ann.....	L. Ph.	190½	56½	Trinway
McKinney, Frank Cowen, B. A.....	.....	...	...	Columbus
McMechan, William Frazier.....	E. Ph.	193½	21	St. Clairsville
McPherson, Clarence Githens.....	Science	193½	48	Xenia
Nachtrieb, Clarence R.....	E. Ph.	193½	77½	Wauseon
Nash, Simeon, B. A.....	.....	...	...	Columbus
Needles, Ada Ruckle, B. Sc.....	.....	...	...	Groveport
Nevin, Bertha Marie.....	Special	...	44½	Columbus
Newman, Magdalene.....	Special	...	37½	Mechanicsburg
Nicola, Benjamin Di.....	Special	...	142½	Barnhill
Nida, William Lewis, B. Ph.....	.....	...	...	Lincoln
Nischwitz, John B.....	Special	...	6½	Florida
Nobles, Edwin Earl.....	Special	...	16½	Flint, Mich.
Norris, John S. B. Ph.....	.....	...	...	Columbus

	Course	Course Hours	Credit Hours	Home Address
Norton, Caroline Clemence.....	L. Ph.	190½	37½	Columbus
Noxon, Frank Montessoro .....	E. Ph.	193½	...	Lorain
O'Brien, Charles Francis.....	L. & J.	148½	94½	Urbana
O'Brien, Falconer .....	Special	...	9½	Columbus
Ogan, Servitus .....	L. & J.	148½	...	Columbus
Ogihara, Takujo .....	M. L. Ph.	190½	32½	Tokio, Japan
Olmstead, Roscoe Charles.....	Science	193½	46½	Warren.
Ortman, Earl Hill.....	Com.&Ad.	196½	94½	New Salem
Orton, Samuel Torrey, B. Sc.....	.....	...	...	Columbus
Oyerturf, Alva Kendall.....	Com.&Ad.	196½	37½	Columbus
Paine, Seth Webb.....	Com.&Ad.	196½	24	Columbus
Parker, Harry R.....	E. Ph.	193½	28½	Pataskala
Parrett, Frank Coffman.....	Arts	190½	49½	Washington C. H.
Parsons, George McClellan, B. Ph.....	.....	...	...	Columbus
Partridge, Bert Mitchell.....	Special	...	42¾	Flint
Paterson, Bertha Gildershere, B. A.....	.....	...	...	Columbus
Pavlicek, Frank J., B. Ph.....	.....	...	...	Toledo
Peoples, Emmet W.....	Com.&Ad.	196½	85½	Pomeroy
Perry, Elma Brooks, B. Ph.....	.....	...	...	Troy
Peters, Herbert Zebulon.....	Special	...	12	Hooker
Phillips, Lydia .....	M. L. Ph.	190½	28½	Columbus
Plum, Harley Marten.....	Arts	189	152½	Ashville
Pocock, Lucy Hunt.....	E. Ph.	192	141	Columbus
Porter, George Henry, B. Ph.....	.....	...	...	New Philadelphia
Porter, Minnie, Ella.....	Special	...	59¼	New Philadelphia
Postle, Carlton David.....	Prep. Med.	150	100½+10	Alton*
Postle, Carl Haldy.....	Com.&Ad.	196½	79½	Columbus
Potts, Beulah, Josephine.....	Arts	190½	91½	Columbus
Powell, Cornelia .....	Arts	189	147	Columbus
Pratt, Edna Stuart.....	Arts	190½	49½	Columbus
Price, Anna Mehew.....	Special	...	42	Norwalk
Priddy, Thomas DeWitt.....	Special	...	48¾	Findlay
Prince, Frank Joseph.....	Science	193	123	Millertown
Randall, Rita .....	M. L. Ph.	190½	49½	Columbus
Raymond Maybelle .....	E. Ph.	192	115½	Columbus
Raymond, Stockton .....	L. Ph.	190½	61½	Columbus
Redrow, Clara M.....	M. L. Ph.	189	103½	Williamsburg
Rees, Edith Celeste, B. A.....	.....	...	...	Columbus
Reese, David R, B. A.....	.....	...	...	Shawnee
Reutinger, Ernest Victor.....	Special	...	117	Chillicothe
Richardson, Robert Edwin.....	Arts	190½	82½	Toledo
Ridenour, Walter Ashton.....	Com.&Ad.	196½	147	Jackson
Riffey, Clarence Everett.....	L. & J.	148½	13½	Coshocton
Rocap, James Elmer.....	Com.&Ad.	196½	12¾	Lima
Roebuck, Edith Amanda.....	Special	...	18	Columbus
Roedel, Frederick Augustus.....	Special	...	85½	Zanesville
Roney, Mary Malvina, B. Ph.....	.....	...	...	Columbus
Ruebush, Joseph Keiffer.....	Special	...	99	Dayton
Sadler, Anna Belle.....	L. Ph.	189	123	Columbus
Salem, Edna Esther.....	L. Ph.	190½	114½	Columbus
Scarlett, Henry Lancelot, B. A.....	.....	...	...	Columbus
Scarlett, William Joseph.....	Arts	190½	49½	Columbus

	Course	Couse Hours	Credit Hours	Home Address
Schautz, Albert J.....	Science	198	159	Dayton
Schneider, Earnest True.....	L. & J.	148½	68½+6	Dayton
Schönthal, Derso Clarence.....	E. Ph.	192	135	Columbus
Schoedinger, Ferdinand P.....	Arts	189	165	Columbus
Sessions, Elizabeth .....	Special	...	60	Columbus
Seymour, Edith Lillian .....	Arts	190½	76½	Columbus
Shaeffer, Ray .....	Arts	190½	33	Coshocton
Shannon, Harris Cooper.....	E. Ph.	193½	103½	Wakeman
Shaw, Harry R., B. Ph.....	.....	...	...	Zanesville
Sheets, Nellie Florence.....	E. Ph.	193½	30	Columbus
Shoemaker, Carl David.....	Com.&Ad.	196½	33	Napoleon
Simpson, Warner Pike.....	Prep.Med.	150	91½	Worthington
Skimming, Wilbert Bobb.....	Special	...	48	Columbus
Sleeper, John Burson.....	Com.&Ad.	196½	9	Wilmington
Smead, Annie Elizabeth.....	L. Ph.	190½	51	Columbus
Smith, Ella J.....	Special	...	42	Wilmington
Smith, Harold Osborn.....	L. Ph.	189	120	Columbus
Souder, Charles Granville.....	Science	193½	56½	Lafayette, Ind.
Southard, Harry Green.....	E. Ph.	193½	40½	Marysville
Southard, Ruth .....	Special	...	52½	Columbus
Southwick, Myrtle Minerva.....	E. Ph.	193½	55½	Kendalville, Ind.
Speaks, Mrs. Edna.....	Special	...	19½	Columbus
Sperry, Wilmot Jr., B. Ph.....	.....	...	...	Mt. Vernon
Sproat, Martha Evans.....	L. Ph.	190½	109½	Columbus
Stauffer, Clinton .....	Science	196	147½+31	Columbus
Stephenson, Bertram Shearer, B. Ph.....	.....	...	...	Jackson
Steward, James Clarence.....	E. Ph.	193½	97½	Marcy
Stiver, Joseph Alfred.....	Arts	190½	28½	Columbus
St. John, Edith Louise.....	Arts	189	110	Bowling Green
St. John, Lynn Wilbur.....	L. Ph.	190½	19½	Barberton
Stockman, Amy Fredericka.....	L. Ph.	190½	...	Napoleon
Stone, Laura .....	Special	...	3¾	Columbus
Sullivan, Oscar M.....	Arts	189	124½	Columbus
Surface, Frank Macy.....	Science	193½	43½	Eaton
Swaney, Sara C.....	E. Ph.	192	144	East Liverpool
Sykes, Harry Raymond.....	Science	193½	33	Plymouth
Tallmadge, Harold Hedges.....	Com.&Ad.	196½	17½	Columbus
Tangeman, Theodore H.....	Special	...	87	Kettleville
Tatje, Oral D.....	Prep.Med.	150	102	Columbus
Taylor, Bessie Battele.....	L. Ph.	189	153	Columbus
Taylor, Mabel .....	Special	...	9	Columbus
Taylor, Mary Hill.....	L. Ph.	190½	97½	Columbus
Taylor, William Harry.....	E. Ph.	192	162	Columbus
Teter, Sumner, B. Sc.....	.....	...	...	Columbus
Thomas, Herbert Spencer.....	Arts	190½	49½	Wheeling, W. Va.
Thomas, Phillips .....	Science	195½	52½	Columbus
Thompson, Mrs. William O.....	Special	...	12	Columbus
Thompson, Bessie Agnes.....	Arts	190½	49½	Columbus
Thompson, Roy Washington.....	L. Ph.	190½	88½	Gallipolis
Tilton, Josephine Howard.....	E. Ph.	192	180	Jelloway
Trauger, Anna Louise.....	E. Ph.	193½	43½	Columbus
Tressel, Laura Amelia.....	E. Ph.	193½	55½	Columbus

	Course	Hours	Credit Hours	Home Address
*Turner, Belle .....	E. Ph.	...	...	Worthington
Turner, Bertha .....	M. L. Ph.	189	123	Columbus
Turner, Edward C. ....	Special	...	58½	Columbus
Turner, Lucile E. ....	Special	...	...	Columbus
Van Meter, Auta Leah. ....	Special	...	...	Columbus
Veach, Esther Louise. ....	Special	...	77½	Newark
Vinson, Albert E. B. Sc. ....	...	...	...	Dayton
Wacker, Alma Henrietta. ....	Science	193½	52½	Columbus
Walker, Mrs. E. D. ....	Special	...	4½	Columbus
Walsh, Frances Lyon. ....	Arts	190½	84	Columbus
Wauder, Charles Benjamin. ....	L. & J.	148½	4½	Mt. Vernon
Ward, Annette Persis. ....	Special	...	89½	Columbus
Ward, Lila Lucile, B. Ph. ....	...	...	...	Perrysburg
Warner, Cecil Elisha. ....	E. Ph.	193½	40½	St. Paul
Warner, John Howell. ....	Arts	190½	91½	WestShelby, N.Y.
Waugh, Helen Grace. ....	L. Ph.	190½	85½	Bowling Green
Wearer, Mima Jacobs. ....	E. Ph.	193½	112½	Dayton
Weber, Mary Isabelle. ....	M. L. Ph.	190½	48	North Broadway
Weick, Carrie Rosina, B. Sc. ....	...	...	...	Newark, N. J.
Weisman, Frances .....	L. Ph.	190½	43½	Marion
Weiss, Harry Hawthorne. ....	L. Ph.	...	...	Canal Dover
Welling, Faith Cornelia, B. A. ....	...	...	...	Worthington
Wells, Byron Bliss. ....	Science	195	130	Ostrander
Whetsel, James Anderson Garfield. ....	Arts	190½	102	Columbus
Whitaker, William Earl, B. Ph. ....	...	...	...	Wauseon
White, Carroll Agnew. ....	L. Ph.	189	116½	Marysville
Whiteside, John Wesley, B. Ph. ....	...	...	...	Bloomingsburg
Whitmore, Albert Childs. ....	Science	193½	...	Spring Prairie
Wilding, Agnes .....	L. Ph.	190½	24	Brooklyn, N. Y.
Wilkinson, John Anderson. ....	Science	193½	106½	Piqua
Willis, Roche Carl. ....	L. Ph.	190½	37½	Columbus
Wilson, Alice Carrie. ....	Special	...	21¾	Alton
Wilson, Stella Shoemaker. ....	Special	...	78½	Columbus
Wing, Lucius Arthur. ....	Science	193½	94½	Columbus
Wiren, Aurora .....	Special	...	6	Min'eap'lis, Minn.
Wiren, Frances .....	Special	...	...	Min'eap'lis, Minn.
Wiren, Jenny .....	Special	...	4½	Min'eap'lis, Minn.
Woods, William Burroughs .....	E. Ph.	192	126	Garrettsville
Wortman, Frederick Phipps. ....	L. Ph.	190½	37½	Reid
Wright, Allison Bronson. ....	Arts	190½	14½	Chesterhill
Wright, Nellie, B. Ph. ....	...	...	...	Werthington
Yost, Nancy Ellen. ....	M. L. Ph.	190½	30	Columbus
Young, Carl Houseman. ....	Arts	190½	40½	Columbus
Young, Claude Burnett. ....	E. Ph.	193½	88½	West Rushville

\*Died.



## COLLEGE OF ENGINEERING

	Course	Course Hours	Credit Hours	Home Address
Aid, Albert Charles.....	E. E.	219½	30+10	Chillicothe
Alexander, Arthur Barr.....	E. E.	219½	...	Clifton
Alexander, William Franklin.....	M. E.	223½	51½+4	Man'gton, W. Va.
Alford, Arthur Milton.....	M. E.	222	177	Windham
Alsdorf, Robert Clyde.....	M. E.	223½	52	Utica
Ames, Holiday .....	C. E.	210½	95+3	Columbus
Anderson, Walter Stewart.....	C. E.	210½	49½	Mt. Vernon
Armstrong, Hugh Cook.....	E. E.	219½	73½+3	Clintonville
Arnett, Eugene Hanson.....	E. E.	219½	23	Mansfield
Arnold, Charles H.....	M. E.	223½	99	New London
Arnold, Frank Washington.....	Special	...	20½+30	Somerset
Ashburn, John Chawning.....	C. E.	210½	37½+2	Batavia
Austin, John George.....	E. E.	219½	7	Mt. Vernon
Bahrke, Charles Frederick.....	I. A., S.	96	57+5	Columbus
Bailey, Ervin George.....	M. E.	222	134+6	Damascus
Bailey, Purdy Sanford.....	C. E.	210½	39½+5	Warren
Balz, Ernest .....	C. E.	209	145	Columbus
Balz, Louis Christian Frederick.....	C. E.	209	117	Columbus
Basker, Russell David.....	M. E.	223½	62½+2	Brooklyn, N. Y.
Barlow, Moses Henry, C. E.....	...	...	...	Columbus
Barringer, John Martin.....	Chem.	202	161	Washingt'n, D. C.
Barry, William John.....	C. E.	209	127	New Straitsville
Battenfield, John Milton.....	E. E.	219½	107½+4	Delaware
Bauroth, Walter John.....	M. E.	222	87+8	Springfield
Beard, Frank Andrew.....	I. A.	213½	49	Jacksontown
Belcher, Ova Clifford.....	C. E.	210½	10	Xenia
Benbow, James D.....	I. A. S.	96	96+10	Milo
Benedict, Eric Wilson.....	E. E.	219½	54	Waterbury, Conn.
Bennett, William Edward.....	M. E.	223½	6½	Akron
Bigelow, Clarence C.....	E. M.	209½	125½	Findlay
Billingsley, Robert Wallace.....	M. E.	222	118	Lisbon
Birnie, James Harry.....	E. E.	219½	38½+3	Marietta
Bleining, Albert Victor, B. Sc.....	(Chem.)	...	...	Cleveland
Boehme, Adolph Joe, M. E.....	...	...	...	Youngstown
Bomesberger, Walter Nelson.....	E. M.	209½	106½+5	Columbiana
Boothman, Dale Maxwell.....	M. E.	223½	110½	Bryan
Bostater, Herbert Lee.....	E. E.	219½	68½+3	Ney
Bostwick, Oliver Newton.....	C. E.	209	155	Mt. Sterling
Bott, George Robert, M. E.....	...	...	...	Columbus
Boxwell, Leslie Vaughan.....	E. E.	219½	28½	Franklin
Brandon, Bruce Armstrong.....	E. E.	219½	50	Prairie Depot
Brannan, Thomas Hayes.....	C. E.	210½	81½+3	Marysville
Brashear, Edward Rosemond.....	C. E.	210½	105½	Columbus
Bridgeman, Benjamin Lonnis.....	C. E.	210½	54½	Syracuse
Britton, Guy.....	C. E.	210½	51½+5	Simons
Britton, Lloyd C.....	C. E.	209	147	Williamsburg
Britton, William Miller.....	E. E.	219½	28+13	Columbus
Brooks, Herbert Barton.....	E. E.	217	147	Piqua
Brown, Clarence Gittings.....	E. E.	219½	54½	Columbus

	Course	Course Hours	Credit Hours	Home Address
Brown, Lucian Corstencen.....	M. E.	223½	10	Columbus
Bull, Philip Sidney.....	E. M.	210½	45½	Hanging Rock
Burch, Orrin .....	E. E.	219½	96½	Columbus
Burgess, Arthur Luis.....	E. E.	219½	52½	Columbus
Burrell, Glenn Smith.....	C. E.	210½	54½	New Lexington
Burwell, Ralph .....	Chem.	209½	38½	Tippecanoe City
Cameron, Harry Ezra, C. E.....	.....	....	....	Lisbon
Cameron, James L.....	Arch.	216½	93½+3	Malvern
Campbell, John Grant.....	E. E.	219½	36	Dayton
Carnes, Charles Milton.....	M. E.	223½	52½	Lisbon
Cartzdafner, Roy Edwin.....	M. E.	223½	110½	Loudon
Casebeer, Elmer Robert.....	C. E.	210½	39½+3	Canal Dover
Caskey, George Alexander.....	M. E.	222	137	Columbus
Cavin, Frank Thomas.....	E. E.	217	168	Spencer
Chamberlain, John Ross.....	C. E.	209	138½	Tiffin
Chambers, William Royal.....	M. E.	223½	53	Damascus
Chandler, William H.....	C. E.	210½	33½	Columbus
Chapman, Harvey Graves.....	C. E.	210½	7½	Gypsum
Chubb, Charles St. John, Jr.....	Arch.	219½	54½+2	Columbus
Chubb, Joseph Horace.....	C. E.	210½	82+5	Columbus
Clark, Orelia Bradford.....	M. E.	223½	43½	Columbus
Clark, Thomas Walter.....	Ceramics	213½	29½+7½	Shawnee
Clarke, James Ulrick.....	E. E.	217	154	Lancaster
Cockley, William Barney.....	C. E.	210½	54½+2	Lexington
Colgan, Frank J.....	Ceramics	90	70+60	Columbus
Conant, Frank Marvin.....	M. E.	223½	18½	Madisonville
Conley, Clyde G.....	C. E.	209	160½	Newark
Connell, Ralph Roy.....	E. E.	219½	9½	Columbus
Conner, Sidney Earl.....	M. E.	223½	...	Akron
Conover, Roy .....	C. E.	210½	3½	Mason
Conrad, Verne Louis.....	C. E.	209	160+6	Columbus
Converse, George Leroy, Jr.....	C. E.	210½	48½	Columbus
Cook, Spencer Nye.....	E. M.	209½	118½+8½	Chillicothe
Cooke, Royal Alston.....	E. E.	217	139+20	Wyoming
Cooley, James Riddle.....	E. E.	219½	48½	Nelsonville
Cooper, Ralph McClelland.....	I. A., S.	96	46	Struthers
Coover, Winfred Forrest, B. A.....	Chem.Spl.	...	49	Dayton
Cornell, Charles Brown.....	M. E.	223½	65	Columbus
Cory, Mark Dee.....	C. E.	210½	53½	De Graff
Cosley, Harvey Harter, C. E.....	.....	....	....	Troy
Cosley, John Weddell.....	M. E.	223½	55½	Troy
Coulter, Leonard Burnside.....	Cer.	212½	107½	Oxford
Crable, Arthur, C. E.....	.....	....	....	Columbus
Crable, George .....	E. M.	208	158	Columbus
Craft, Frank Marion.....	E. E.	219½	55½+7	Columbus
Craig, Paul Selwin.....	C. E.	210½	55½+3	Shreve
Crain, Reed .....	M. E.	223½	18½	Columbus
Crane, Kinsel Carson.....	M. E.	223½	55½	Columbus
Cranston, Joseph Victor.....	E. E.	219½	30	Wheelersburg
Crocker, Theodore Doane.....	E. E.	219½	62½+5	Cleveland
Crooks, Thomas Elliott.....	E. E.	219½	108½	Van Wert
Curran, Michael Francis.....	M. E.	223½	51½	Corning

	Course	Course Hours	Credit Hours	Home Address
Curtis, Roy Elmer.....	E. E.	219½	56	Niles
Dalton, John Simpson.....	E. E.	219½	36½	Shreve
Dann, Walter M.....	E. E.	217	170	Columbus
Darrah, John Francy.....	E. E.	219½	61½+2	Toronto
DeGenchy, James I.....	E. M. (S.)	...	6	Columbus
Denmead, Edward Graham.....	M. E.	223½	62+3	Columbus
Denny, Charles Wampler.....	M.E. in E.E. ..	...	...	Middletown
DeWolf, Roger Dennison.....	M.E. in E.E. ..	...	...	Madison
Dick, Owen Quinton.....	I. A., S.	...	44	Columbus
Diehl, Joseph A.....	C. E.	210½	102+8	Defiance
Dierdorff, Percy Cyrus.....	M. E.	223½	80+6	Columbus
Dill, Raymond.....	M.E. in E.E. ..	...	...	Columbus
Dorsey, Walter Alfred.....	M. E.	223½	55½	Newark
Doty, Oliver Perry, Jr.....	E. M.	209½	77½+13	Gervais
Dunn, Forester Eugene.....	I. A., S.	96	44+2	Columbus
Dupuy, Benjamin Francis.....	C. E.	210½	101½+12	Ironton
Ecker, Harrison Grant.....	E. E.	219½	79½+5	Columbus
Edgerly, Raymond John.....	C. E.	210½	71½+6	Pataskala
Elliott, Emmett Foster.....	Arch.	153	153	Chesterhill
Elsner, Richard E.....	C. E.	210½	67+4	Newark
Enswiler, John Edwin.....	M. E.	223½	110½	Morgan Center
Entwistle, William .....	E. M. S.	91	...	Glenroy
Escobar, Raphael .....	E. M. (S.)	91	45+10	Puerto Principe, Cuba
Euchenhofer, Albert John.....	E. E.	219½	86	Dayton
Evans, William .....	E. M. S.	91	45	Lisbon
Eysenbach, Louis Jr.....	C. E.	210½	102½+5	Delphos
Fast, John Edwin.....	C. E.	210½	34	Columbus
Fay, Byron Ayres.....	M. E.	223½	55½	Columbus
Fay, Sherman .....	M. E.	223½	107½	Wyoming
Feeman, John Henry.....	Ceramics	213½	38	Columbus
Feicht, Edward Roll.....	M. E.	223½	64½	Dayton
Ferrall, Edwin Simpson.....	E. E.	219½	46	Carrollton
Fieldner, Arno Simpson.....	C. E.	210½	51½+9	Ney
Firmin, Frank Bope.....	M. E.	223½	18	Findlay
Flangan, Harry .....	C. E.	210½	18	Painesville
Fleming, Joseph Hamilton.....	C. E.	209	160+24	Olentangy
Flickinger, Edwin E.....	M. E.	223½	44½+10	Cleveland
Flowers, Dean Wilcox.....	C. E.	210½	54½	Columbus
Follett, George Alfred.....	C. E.	210½	89+3	Columbus
Ford, Nile Otis, E. M.....	...	...	...	Wheeling, W. Va.
Foster, Vanse .....	E. M.	109½	108½	Higby
Fox, Lewis .....	C. E.	210½	29½+6	Payne
Frame, Rollo St. Clair.....	C. E.	209	188	Washington
Frankenberg, George T.....	M. E.	222	166	Columbus
Frechtling, Arthur George, M. E.....	...	...	...	Hamilton
Frerichs, John Turner.....	Ceramics	90	17+4	Tottenville
Frost, Arthur Berzille.....	Chem.	212½	96½	Cleveland
Fulton, James Stewart.....	M. E.	223½	107½	Steubenville
Funk, Leo William.....	Chem.	212½	80½	Chesterhill
Galbreath, Albert Webster.....	C. E.	210½	34+6	Columbus
Gardner, Wilson Henry.....	M. E.	223½	50	Columbus



	Course	Hours	Credit Hours	Home Address
Gates, Ellis Day.....	Cer. (S.)	90	80+36	Hinsdale, Ill.
Gerard, Harley, J. A.....	E. E.	219½	38½	Greenville
Giessen, Kurt .....	E. M.	210½	54½	Canton
Gilchrist, Edward Luce.....	E. E.	219½	76+3	Ashtabula
Gleichauf, Frank S.....	Arch.	154	154	Newark
Goddard, Arthur Samuel.....	Ind. Arst(S.)	96	15	Franklin Furnace
Gorrell, Edmund Morgan.....	E. E.	219½	48½	Bellaire
Gould, William Stewart.....	M. E.	223½	98½	Wyoming
Gregory, Raymond Clinton.....	Ceramics	213½	18½	Farmers Station
Gregory, Carl Louis.....	Chem.	209½	30	Geneva
Grindle, Charles Stanton.....	Chem.	212½	99½	Jacksontown
Groves, Lindley Murry.....	C. E.	210½	19+3	Batavia
Gwynn, Walker.....	E. E.	219½	40	Wheeling, W. Va.
Hadden, William Ephraim.....	E. E.	219½	22½	Painesville
Hager, LeRoy William.....	C. E.	209	177	Piqua
Hailman, William Alexander.....	Special	...	6	Dayton
Hale, Munroe Harry.....	C. E.	210½	...	Elbridge
Hall, Karl Thompson.....	M. E.	223½	32½	Gallipolis
Halverstadt, Herbert .....	Ceramics	212½	42½+5	Columbiana
Hamilton, Ross Elroy.....	C. E.	210½	100½	Keene
Hammond, John Miller.....	C. E.	209	160+2	Columbus
Hance, Harry Thomas, B. Sc.....	Chem.	...	...	Columbus
Hapgood, Eugene Palmer.....	Chem.	202	168+15	Sabina
Hardy, Paul .....	E. M.	208½	128½+8	Columbus
Harrington, Alfred Lewis.....	E. E.	219½	64½+6	Xenia
Harris, Ambos Mahon.....	E. M.	210½	47½	Columbus
Harris, Ralph Neander.....	E. E.	219½	45½	Columbus
Harrop, Carl .....	E. M.	208	158	Columbus
Harsh, John Marion.....	Chem.	209½	63½	Cleveland
Haskett, Frank Hager.....	Ind. Arts	96	45+4	Marion
Hawthorne, Carl Henderson.....	M. E.	223½	51½+3	Cambridge
Hayden, Florence Kenyon.....	Arch.	219½	49½	Columbus
Hayes, Charles Bradford.....	M. E.	219½	97½	Hilliards
Headley, George Louis.....	E. E.	219½	32½	Marion
Heaton, Merton Timer.....	C. E.	210½	54½	Vigo
Hegelheimer, Edward Andrew.....	C. E.	210½	42½	Columbus
Helvey, George Stanley.....	M. E.	223½	110½	Hamilton
Herron, Robert .....	E. M.	210½	13½	Akron
Hess, Arthur George.....	Cer. (S.)	90	35	Ottawa, Ill.
Heywood, Harry Nelson.....	M. E.	223½	59+9	Wapakoneta
Hill, Cortland Latimer.....	C. E.	210½	105½	Berlin Heights
Hill, Harry Earl.....	C. E.	209	156	Richwood
Hill, Otho William.....	Ceramics	213½	13½	Richwood
Hinman, Harold Faxon.....	Special	...	38	Elyria
Hirst, Harry .....	E. M.	208	132	Midvale
Hitch, James Frank.....	C. E.	209	143	Batavia
Hite, Florence Elizabeth.....	Arch.	219½	57½	Columbus
Holbrook, George Frederic.....	E. M.	208	158	Bucyrus
Holloway, Thurman Welferd.....	M. E.	223½	93½+2	Zanesville
Hood, Willard J.....	M. E.	223½	55½	Cambridge
Hopkins, Lloyd Clark.....	Ind. Arts	215½	56½	Nelson
Hornbrook, John Roscoe.....	E. E.	219½	53½	Barnesville



	Course	Hours	Credit Hours	Home Address
Hoster, Herman A.....	M. E.	223½	77½+10	Columbus
Hough, George Leo.....	E. E.	219½	30	Elmira, N. Y.
Houghton, Hugh Freet.....	E. E.	219½	14½+3	Delton
Howard, Oscar David.....	Arch.	212	155	Circleville
Howe, Roy Edwin.....	E. M.	210½	52½+13	Lodi
Howland, Charles Morton.....	C. E.	210½	44	Ripley
Howland, William Earl.....	C. E.	210½	16½	Ripley
Howson, Charles Thatcher.....	E. E.	219½	75½	Chillicothe
Huddleson, Frank N.....	E. M.	208	157+26	Columbus
Hughes, Merritt L.....	I. A., S.	96	...	Nashville
Hulbert, William Rowsell.....	M. E.	223½	112½+11	New York, N. Y.
Hull, Walter Austin.....	Ceramics	210	155+6	Orangeville
Humphrey, Harold Phelps.....	Ceramics	212½	60½	Elkland, Pa
Hunter, James Williamson.....	C. E.	210½	102½+5	Zanesville
Hyman, Harry Abe.....	C. E.	210½	54½	Mt. Vernon
Jackson, Charles Edwin.....	Cer., S.	90	70+3	Wheeling, W. Va.
Jackson, Roy Starr.....	C. E.	210½	12	Elyria
Johnson, Azel Bart.....	E. M., S.	91	59+10	Trimble
Johnson, Walter A.....	M. E.	222	166	Columbus
Johnson, Wilferd D.....	I. A., S.	96	43+3	Lisbon
Jones, James Albert.....	C. E.	210½	44½	New Straitsville
Jones, Granville Reynard .....	C. E.	210½	53	Columbus
Jones, Thomas Walter.....	E. E.	219½	29	Columbus
Judson, Walter Raymond.....	M. E.	223½	107½	Dayton
Kalb, Warren Cornelius.....	E. E.	219½	55½	Bluffton
Kallmerton, Oscar .....	E. E.	219½	2	Columbus
Keating, Harvey Thomas.....	Chem.	202	138	Columbus
Keim, Herbert Edward.....	C. E.	210½	65½+4	Cleveland
Kellogg, Frank Cummings.....	C. E.	210½	51½+16	Kingsville
Kempton, Willard Hoyt.....	E. E.	219½	53½	Trimble
Kendall, Thomas Lloyd.....	E. M.	210½	4½	Portsmouth
Kennedy, Charles Hugh.....	Chem.	209½	2½	New Brighton, Pa
Kennedy, William McCreery.....	Cer., S.	90	10+2	New Brighton, Pa
Kern, William Frederick.....	Chem.	202	165+12	Bellaire
Kettler, Frank Christian, C. E.....	...	...	...	New Bremen
Killinger, Claude H.....	C. E.	210½	9	Toledo
Kimmel, Fred Burnhan.....	C. E.	210½	77½	Van Wert
Kinder, William Rusk.....	Mining, S.	91	70	Casstown
King, Francis Emmet.....	Mining, S.	91	89+28	Leisenring, Pa.
King, Herbert Sumner, C. E.....	...	...	...	Medina
King, Roy Stevenson.....	M. E.	222	142	Xenia
Kinnear, Harry Baldwin.....	Special	...	130	Mt. Sterling
Kinnear, John Karl.....	M. E.	223½	2	Kingsville
Kinnison, Ernest Eugene.....	C. E.	209	143	Jackson
Kirk, Harry Mitchell.....	E. E.	219½	4½	Wheeling, W. Va.
Kittle, James Monroe.....	M. E.	223½	99½	Columbus
Klie, Walter .....	M. E.	223½	102	Columbus
Knies, Daniel .....	E. E.	219½	108	Columbus
Knoderer, Homer Guy.....	E. E.	217	152	Columbus
Kohler, Gustave Adolph.....	C. E.	210½	34½+3	Chillicothe
Krauss, Edward Campbell.....	Cer.	213½	39	Ottawa
Krick, George Milton.....	Cer.	90	37+15	Decatur, Ind.

	Course	Course Hours	Credit Hours	Home Address
Krumm, Thomas Zettler.....	C. E.	209	147	Columbus
Kunkle, Fred Raymond.....	E. E.	217	125+30	Bryan
Lampert, John Martin.....	M. E.	223½	107	Xenia
Laylin, David .....	C. E.	210½	51½+4	Norwalk
Lesh, John Howard, M. E.....	...	...	...	Louisville
Lied, Ernst Mitchell.....	E. E.	217	111	Columbus
Linxweiler, Otto .....	M. E.	223½	104½	Dayton
Lloyd, Thomas Chester.....	Chem.	209½	20½	Martins Ferry
Lockwood, Howard Thomas.....	C. E.	209	136	Batavia
Loesser, Edward Joseph.....	Arch.	219½	12	Tiffin
Loewensohn, David .....	C. E.	210½	105½	Urbana
Long, George Garfield.....	E. M.	209½	101½	Tippecanoe City
Loyd, William Frank.....	E. E.	219½	...	Granville
Lynn, Harry .....	Special	...	19½	Columbus
Marckworth, Otto Stanley, B. Sc.....	Chem.	...	...	Cincinnati
Marietta, Harry Riefsnider.....	E. E.	217	150+3	Dayton
Marker, James Reed.....	C. E.	210½	23+6	Versailles
Marquardt, William Benjamin.....	E. M.	210½	58½+5	Dayton
Marshall, Charles Howard.....	M. E.	223½	110½	Fair Haven
Martin, John D., Jr., M. E.....	...	...	...	New Straitsville
Martin, Ira Oland.....	E. E.	219½	48½	Columbus
Martin, Ray Morton.....	M. E.	223½	40½	Richwood
Matlack, Allyn Wolcott.....	M. E.	223½	98½	Steubenville
Mattoon, Winfred L.....	C. E.	210½	54½	Plain City
Maxwell, Howard McGee.....	I. A.	215½	29½	Columbus
Maxwell, James Arthur.....	C. E.	219½	10½	Springfield
Maxwell, William Chase.....	E. E.	219½	53	Syracuse, N. Y.
Means, Hugh Jackson.....	M. E.	223½	27	Columbus
Meek, Paul Deady.....	C. E.	210½	54+5	Columbus
Meiklejohn, Robert .....	M. E.	223½	68+5	Columbus
Melick, Cyrus Alan.....	C. E.	210½	105½	Columbus
Mercer, Robert Wood.....	E. M.	209½	106½	Chester Hill
Merrell, William Stanley.....	E. E.	219½	53½	Hartwell
Merrill, Ernest Martin.....	C. E.	209	123½	Toledo
Michel, Christian .....	C. E.	210½	40½	Mt. Sterling
Miller, Albert Sanford.....	E. M.	219½	20½	Tiffin
Miller, Albert Arthur.....	C. E.	209	138+13	Zanesville
Miller, Charles A.....	M. E.	223½	54½	Springfield
Miller, Clarence .....	M. E.	223½	16	Zanesville
Miller, Ralph Charles, C. E.....	...	...	...	Zanesville
Minor, Wells Hammond.....	E. M.	209½	105½	Akron
Minton, Roy Hines.....	Cer.	213½	56½	Covington
Mitchell, Donald Ransom.....	E. M.	210½	33½	Findlay
Monett, Charles Henry.....	C. E.	210½	18½	Columbus
Monsarrat, Charles P.....	M. E.	223½	70½	Columbus
Mooney, George Lewis.....	E. E.	219½	111½	Woodsfield
Moore, Frank Abram.....	M. E.	223½	52½	Pleasant Corners
Moore, John .....	I. A., S.	96	47	Columbus
Moore, William George.....	M. E.	223½	33½	Portsmouth
Morehouse, Wallace Wilbur.....	C. E.	210½	47½+2	Dayton
Morlan, Wilbert .....	M. E.	222	136+7	Rogers
Morrill, DeWitt Clinton.....	Arch.	219½	14½	Marion

	Course	Course Hours	Credit Hours	Home Address
Morris, Robert Hamilton, E. M.	.....	...	...	Columbus
Morris, Samuel	E. E.	219½	24	Bloomingsburg
Morris, Willard Bernard	M. E.	222	138	Columbus
Morris, William Blaine	M. E.	222	164	Massillon
Morrison, Franklin Houston	Cer., S.	90	90+23	Denver, Col
Mayer, George Garfield	E. M.	210½	48+4	Youngstown
Murphy, Joseph Lincoln	C. E.	210½	105½	McArthur
Myers, Fred	C. E.	210½	49½	Louisville
Myers, Hiram C.	E. M., S.	91	25	Columbus
McComb, Hoyt Sherman	E. E.	219½	44	Columbus
McCorkle, Clayton Jerub	C. E.	210½	62½	Warren
McCorkle, Raymond Andrew	M. E.	223½	58½	Warren
McFarland, Horace M.	E. M.	208	148	Columbus
McGarey, Leo Sylvester	E. E.	219½	43½	Junction City
McGrew, Carl A.	Arch.	219½	49	Martins Ferry
McIntosh, Roscoe Everitt	E. E.	217	160+3	Ravenna
McKeon, Robert Dale	C. E.	209	150	Arcanum
McLaren, James Walter	E. E.	219½	63½	Marietta
McMaster, Carlos Lenox	C. E.	210½	41+4	Columbus
McMullin, Roy A.	E. E.	219½	42	Columbus
McOwen, Thomas	C. E.	210½	82+27	Ovid
McWhinney, Harry Ozias	E. E.	219½	40½+15	Lewisburg
Nagel, Harry	E. E.	219½	43	Wapakoneta
Nauss, Ralph Welty, B. Sc.	Chem.	...	...	Greenville
Nelson, Fred Burgess	E. E.	219	41½+41	North Olmsted
Nesbitt, Charles Edward	Chem.	209½	56½	Columbus
Nesbitt, Frederick Cookman	E. E.	219½	52½	Columbus
Nichols, Harry Birdsall	C. E.	210½	95½+14	Painesville
Nidy, Herbert C.	M. E. in E. E.	...	...	Greentown
Nye, Ralph D.	E. E.	219½	111	Zanesville
Oblinger, Gates Charles, Jr.	M. E.	223½	44	Dayton
Olden, Carl Edward	Arch.	219½	23	Miamisburg
Ogan, Mark	M. E.	223½	29	McArthur
Ogden, Ellsworth	Cer.	212½	88½+9	Columbus
Ogle, Alexander Jackson	E. M.	210½	49+5	Ottawa
Ohliger, Clyde C.	C. E.	210½	14½	Wellsville
Ong, Howard John	Chem.	209½	15½	Smithfield
Orebaugh, Ralph Waldo	E. M.	210½	2½	Columbus
Orndorf, Earl Luther	Chem.	212½	77½+15	Wauseon
Osborn, Liphe Andrews	M. E.	223½	98	Columbus
Panter, Thomas Alfred	E. E.	217	169	Niagara Falls
Parkin, William Z.	M. E.	223½	109	Columbus
Parrett, Benjamin Creamer	Chem.	202	152	Washington C. H.
Pattison, Charles Louis	Cer., S.	90	15	Elkland, Pa.
Paney, Vernon Frederick	E. E.	219½	51½	Leesburg
Pease, George Fay	C. E.	210½	14	Antigo, Wis.
Pech, Arthur C.	Cer., S.	90	5	Macomb, Ill.
Peck, Alfred Steven	Special	...	63+29	Cleveland
Pelton, Forrest Bertrum	E. E.	219½	49½	Chagrin Falls
Perks, George Wheldon	M. E.	222	101	Springfield
Peterson, John William	Arch.	216½	110½+6	Port Clinton
Pettitt, James Myron	E. M.	210½	45+5	Youngstown



	Course	Course Hours	Credit Hours	Home Address
Pheneger, Charles Rudolph.....	E. M.	210½	46½	Cleveland
Pierce, Ernest .....	M. E.	222	51½+3	Lcrair
Pierson, Walter Evans.....	C. E.	210½	7	Marion
Pleukharp, Irwin Hiram.....	I. A., S.	96	65+18	Columbus
Pluddemann, Paul Washington.....	E. E.	219½	53½+5	Columbus
Poto, Frank B., B. Sc. (Chem.).....	...	...	...	Alliance
Prange, Maurice Norval.....	M. E.	223½	38½+2	St. Marys
Prince, George Wallace.....	E. M.	210½	9½	Pierpont
Rasor, Bingham Lee.....	E. E.	219½	42½	London
Raymond, Charles Worthington, Jr....	Cer.	213½	16½	Dayton
Reed, Nathaniel Garfield.....	M. E.	223½	110½	Youngstown
Ribot, Antonio .....	C. E.	210½	41+2	San Juan, P. R.
Rice, Allan Philip.....	E. E.	219½	33	Munson
Rice, Ray Howard.....	C. E.	210½	54½	Corning
Riddle, John Scott.....	E. E.	219½	55½+6	Barnesville
Riddle, Anson Pearl.....	I. A., S.	96	49	Columbus
Riebel, Leroy Clemens.....	Arch.	219½	38½+7	Columbus
Rightmire, Robert Elwood.....	M. E.	222	175+6	Wheetersburg
Ritchie, George Alexander.....	C. E.	209	114	Hudson
Roberts, Marcus Garfield.....	Chem.	209½	52½+12	West Mentor
Rochester, Alexander Sands.....	M. E.	223½	10	Athens
Ross, Calvin Burt.....	E. E.	219½	111½	Birmingham, Ala.
Roudebush, Howard John.....	E. E.	219½	26	Owensville
Royon, Edward Donald.....	M. E.	223½	49½	Houston
Ruggles, William Clannell.....	C. E.	210½	2½	Clarksville
Rupert, Jesse Solomon.....	E. E.	219½	42½	New Waterford
Ryland, Paul Dillen, C. E.....	...	...	...	Columbus
Sanderson, Clarence Herbert.....	E. E.	217	144	Logan
Sandison, Jack Morrison .....	Cer., S.	90	70	Moberly, Mo.
Sargent, Edward Chester.....	C. E.	210½	35½	Columbus
Sayers, Delbert Bancroft.....	E. M.	208	130+9	Marits
Scanlan, John Patrick.....	C. E.	210½	27½	Lancaster
Schertz, William Arthur.....	E. E.	219½	52	Hamilton
Schlefly, Roydon Karl.....	C. E.	209	131½	Mt. Eaton
Schlochtermeyer, Carl Fred, A. B.....	E. E.	217	169	Cincinnati
Schoenlaub, Thomas Jacob.....	C. E.	209	133	Marion
Schott, Alvin Christian.....	Chem.	202	98	Massillon
Schubert, Charles Wesley.....	C. E.	210½	105½	Columbus
Schultz, August Charles.....	Chem.	212½	78	Sandusky
Schumacher, Ferdinand Albert.....	E. E.	219½	41½	Ira
Schwab, Frank Wilbert.....	Chem.	202	158	New Philadelphia
Scott, Cyrus Ellison.....	E. M.	209½	70½+9	Columbus
Scott, James Blaine.....	E. E.	219½	20½	Batavia
Senter, Herbert Pike.....	C. E.	209	160	Columbus
Senter, Edwin Jay.....	E. M.	210½	...	Ashtabula
Sharp, John McDowell.....	C. E.	210½	43½+2	Columbus
Sharp, Edwin Rees, Jr.....	M. E.	223½	2	Columbus
Shaw, Lucian .....	C. E.	209	119	West Lafayette
Sheldon, Robert E., Jr.....	M. E.	223½	21	Columbus
Sherman, John K., C. E.....	...	...	...	Columbus
Shoemaker, Clifford .....	C. E.	210½	39	Grogan
Shrock, John Huber.....	M. E.	223½	50½	Newark



	Course	Course Hours	Credit Hours	Home Address
Shumate, Frank Douglass.....	M. E.	222	129+5	Urbana
Siddall, John William.....	E. M., S.	91	88	Streator, Ill.
Sill, Edgar Townsend.....	E. E.	219½	55½	Fostoria
Singer, Lewis Parmelee.....	E. E.	219½	55½+5	Lewisburg
Singleton, Fred .....	M. E.	223½	55½	Columbus
Slemmons, George Bret.....	E. M.	210½	16½	Columbus
Smith, Archie W.....	C. E.	210½	54½	Martins Ferry
Smith, George Hagerty.....	E. M.	210½	46½+5	Updegraff
Smith, Harry Ford.....	M. E.	222	164	Lexington
Smith, Howard Ellenwood.....	M. E.	223½	24½+1	Dunham
Smith, Horace Wilkins.....	C. E.	210½	2	Newark
Smith, Jay M.....	E. E.	219½	...	Auburn
Smith, Roy Brooke.....	M. E.	223½	112+2	Columbus
Snyder, Edgar Willis.....	Special	...	33	Wooster
Somermeier, Edward Everett, G. Ph..	Special	...	21	Westwood
Sosman, Robert Browning.....	Chem.	202	143½	Chillicothe
Sowers, Emory Blose.....	I. A.	213½	53+5	Westville
Spangler, Thomas McClellan.....	Special	...	36	Pleasantville
Spitler, Grovey, Otterbein.....	Chem.	212½	91½	Van Buren
Sproat, Amasa Delano.....	E. M.	208	158+8	Chillicothe
Stanton, Frederic Moses.....	Chem.	212½	69½+15	Ridgeville
Stellhorn, Adolph .....	C. E.	209	105½	Columbus
Stephain, William Joseph.....	Cer.	212½	92½+8	Belleville, Ill.
Sterling, James Gilman.....	M. E.	222	125	Springfield
Stewart, Alton LeRoy.....	E. E.	219½	67½+5	Findlay
Stewart, C. G.....	E. M.	209½	62½	.....
Stewart, Edward Kennedy, Jr.....	E. M.	210½	8	Columbus
Stewart, Selden Lewis.....	M. E.	223½	61½+5	Struthers
Stocker, James Arthur.....	C. E.	209	160	Gnadenhutten
Stokely, Ray .....	E. E.	219½	39	Roseville
Stone, Thomas Wade.....	M. E.	222	161½	New Bremen
Stout, Wilber .....	Special	...	102	Sciotoville
Strong, Harry Miller.....	C. E.	210½	36	Wilkesville
Stull, Raymond Thomas.....	Cer.	210	147	Elkland, Pa
Stults, Newton Delano.....	E. E.	219½	22	Fremont
Sugden, Burt Ward.....	E. E.	219½	...	Marietta
Talbot, Edgar Carl.....	E. E.	219½	18½	Columbus
Tanner, Edward Wood.....	M. E.	222	164	Zanesville
Tansey, Howard Fred.....	E. E.	219½	7½	Franklin
Taylor, William Oliver.....	E. E.	219½	111½	Urbana.
Templin, John Richard.....	M. E.	223½	92	Salem
Theobald, Paul Frederick.....	E. M.	210½	46	Columbus
Thomas, Edward .....	Chem.	212½	83½	Navarre
Thompson, Howard Clark.....	E. E.	219½	44½	Columbus
Thompson, Thomas .....	E. M., S.	91	40	Shawnee
Irish, George .....	Special	...	99½	Nevada
Irish, Henry Day.....	Special	...	22½	Nevada
Tubbs, Alfred Stowe.....	Special	...	85	Tubbsville
Tucker, Charles Stanley.....	C. E.	210½	39½	Clarksville
Van Dyke, Clifford Steele.....	E. E.	217	196	Ansonia
Van Tine, Charles Hovey.....	M. E.	223½	99	Tiffin
Walford, Eric George Flowers.....	Cer., S.	90	...	Athens, Texas

	Course	Course Hours	Credit Hours	Home Address
Walker, Wilfred Wilmot.....	E. M.	210½	23½	Stockport
Wallace, Edward .....	M. E.	223½	72½+2	Cincinnati
Ward, Samuel Edwin.....	M. E.	223½	105½	Green Spring
Ward, Vernon C., Jr.....	M. E.	222	109+11	Columbus
Warner, Marion Albert.....	C. E.	210½	33	Cardington
Watters, Burr Sells.....	M. E.	223½	55½	Columbus
Watts, Arthur Simeon.....	Cer. S.	90	45+45	Zanesville
Webber, Frank Merrill.....	E. E.	219½	98	West Richfield
Weber, Frederick Clarence, B. Sc.....	Chem.	...	...	Evanston
Weedon, Homer Hill.....	M. E.	223½	22	Cambridge
Weeks, Charles Martin.....	C. E.	210½	39½+7	Marietta
Weinland, Herman Goodman.....	M. E.	223½	40½	Springfield
Weiss, William Winfred.....	C. E.	210½	41½	Canal Dover
Welch, Woodson Payne.....	Arch.	216½	67½+12	Frankfort, Ky.
Wellbaum, Arvy E.....	M. E.	222	164	Brookville
Wertheimer, Edgar Benjamin.....	M. E.	223½	24½+6	Newp'tNews, Va.
Whetsel, Emerson Jay.....	C. E.	209	125+5	Jackson
Whitaker, George Eliot.....	Special	...	114	East Liverpool
Whitaker, Lloyd Dilloy.....	M. E.	223½	4	Columbus
White, Frederick Lewis.....	M. E.	223½	43½	Gambier
Wiel, Arthur Bernard.....	Special	...	105	Cleveland
Wilcox, Carl Clifford.....	M. E.	222	102	Columbus
Wildermuth, Troy Breslan.....	M. E.	223½	39½+5	Columbus
Wilkins, George B.....	I. A., S.	96	25	Delta
Wilkinson, Clarence Moody.....	M. E.	223½	54½	Columbus
Williams, Harry Ernest.....	M. E.	222	166	Harlem
Williamson, Homer Davison, B. Sc....	Chem.	...	...	Monroe
Wilson, James Somerville.....	M. E.	222	209+22	Columbus
Wiltsee, Charles Spinning, Jr.....	C. E.	210½	...	Hartwell
Winger, Stanley Du Boise.....	M. E.	222	136+4	Springfield
Witman, Dwight Newcomb.....	Special	...	51	Columbus
Wolf, Richard Ludwig.....	Cer.	212½	78	Detroit, Mich.
Wood, Paul J.....	E. E.	219½	34	Rockport, Ind.
Wright, Lawrence Robert.....	E. E.	219½	52½	Gambier
Wright, Otis H.....	E. E.	219½	47½	Worthington
Wright, Webb St. John.....	E. E.	219½	2	Akron
Myer, Samuel S.....	M. E.	223½	89½	Barbarton
Wylie, Arthur Raymond.....	E. E.	219½	21+12	Reynoldsburg
Wynne, Francis Edmund.....	E. E.	217	164½	Bethany, W. Va.
Yost, Lloyd .....	M. E.	222	160	Somerset
Youmans, W. Raymond.....	E. E.	219½	113½	Pataskala
Zbinden, Herman Christian.....	C. E.	209	159+6	Toledo
Zeller, Ralph .....	E. M.	209½	82+12	Ottawa
Zwerner, Fred George.....	E. E.	219½	65½+6	Columbus

## COLLEGE OF LAW

## STUDENTS — 1900-1901

	Year	Home Address
Abt, Oscar M.....	First	Canton
Adams, Judson J.....	First	Dresden
Aldrich, Wesley Richard.....	First	Columbus
Alspach, Rufus Edwin.....	First	Columbus
A. B., Heidelberg; A. M., O. S. U.		
Alvord, Justus Elvin.....	Third	Bryan
Ammon, Harry Delbert.....	First	Potsdam
Amos, Frank Craig.....	Third	Sidney
Armstrong, Daniel Hinkle.....	First	Jackson
Bamer, Merton Leonard.....	Third	Grand Rapids
Barnes, Barzillai Owen.....	First	Rushville
Ph. B., Otterbein.		
Barrere, Granville .....	Second	Hillsboro
Beatty, Robert J.....	Third	Cardington
Bechtol, John M.....	Second	Fayette
Berry, Edmond Franklin.....	Third	Celina
Blake, John T.....	Third	Canton
Bock, Theodore E.....	Third	Hamilton
Bostwick, Homer Z.....	Second	Columbus
Bowers, Walton S.....	Third	Hamilton
Bowles, John Porter.....	First	Columbus
Brandt, James Herbert, B. A.....	Second	Greencastle
Brandt, Ulysses Sherman, B. A.....	Second	Columbus
Brewer, Claude Leon.....	Third	Columbus
Brown, James Earl.....	Third	De Graff
Brumbaugh, Roscoe Philip.....	Third	Horatio
Buhrer, Albert M.....	Second	Archbold
Burkey, Charles Paul.....	First	Pleasantville
Burr, Karl Edward. A. B. Princeton.....	First	Columbus
Campbell, William Goble.....	First	Preston
Carey, John T.....	Third	Upper Sandusky
Carlin, Rawson King.....	Third	Findlay
Cash, Homer M.....	First	Lore City
Clark, Lawrence Hayes.....	Second	Cumberland
Clark, William Whittier.....	Second	Canton
Clum, Harry Ernest.....	Third	Thornville
Conrad, Edward Nelson.....	Third	Tiffin
Core, Harry S.....	Third	Columbus Grove
Costello, Edward Wilfred.....	Third	Defiance
Crawford, Ruel Hamlin.....	First	Port Clinton
Crout, Ray Durand.....	Second	Columbus
Cunningham, Charles Gilman.....	First	Fostoria
Curran, Bernard Franklin.....	Third	Corning
Davis, David Hiram Star.....	Second	Findlay
Davidson, Harold Glenn.....	First	Dayton
Dawson, Nathan Charles.....	Third	Columbus
DeGolly, Lloyd Parsons.....	First	Galion
Dieterich, Henry Claude.....	First	Piketon

	Year	Home Address
Dodds, Frank Wylie.....	Second	Xenia
Doorlev, Hugh .....	Second	Sidney
Doud, Harry L. ....	Third	Norwalk
Downing, Earl Summerville.....	Third	Middleport
DuBois, David D.....	First	Bellaire
Dunlap, Carl Reed.....	Third	Columbus
Durand, Charles Homer.....	First	Toledo
Durbin, Samuel Clyde.....	First	McConnellsville
Duval, Marshall Ney.....	First	Steubenville
Eagleson, Joseph Pentecost. Ph. B.....	First	Columbus
Emory, Charles Merton.....	First	Flatt
Euans, William Weldon.....	First	Columbus
Evans, Thomas Daniel.....	Second	Newark
Evans, Lyle Sanford. A. B. Miami U.....	Third	Chillicothe
Farnham, Harry Rathburn.....	Third	Edgerton
*Foster, George Gruel.....	Second	Columbus
Frankenberg Don Juan.....	Third	Tempe, Arizona
Frazier, Robert Lewis.....	First	Gnadenhutten
Fullerton, Charles Hayward. Ph. B.....	First	Wheelersburg
Galloway, Arthur Clyde.....	Third	Columbus
Glick, Frank Morris.....	Second	Amanda
B. Sc. Ada Normal.		
Godown, Harry Clayton.....	First	Hilliards
Goode, Thomas Allen.....	First	Columbus
Grabiel, John Wellington.....	Third	Bowling Green
Gurney, Rexford R.....	First	Mansfield
Haberer, Harry Andrew.....	Third	Dayton
Hales, Burton Elon.....	First	Henrietta
Hammond, Frank Nathan.....	Third	Smithfield
Hammond, Frederic Mathas.....	Third	Smithfield
Hauss, Eugene Augustus.....	Second	Wapakoneta
Hempstead, David King.....	First	Wilmington
Hinkle, Lester E.....	First	De Graff
Hite, William A.....	Second	Thornville
Hosler, William E.....	First	Laurelville
Houle, Frank Gaydon.....	Second	Bellevue
A. M. Western Reserve.		
Huggins, Burch Delaplaine. B. Ph.....	Second	Hillsboro
Hummell Edwin Ray.....	Second	Carroll
Humphrey, Oliver Perry.....	First	Glenmont
Hunt, Joy H.....	First	Columbus
Johnson, Charles Foster.....	Second	New Albany
Johnston, Robert Royal.....	First	Marietta
Jones, Alonzo N.....	Third	New Martinsburg
Jones, David Thomas.....	Second	Youngstown
Jones, Hanby Raymond.....	Third	Westerville
Kahle, James Byron.....	Second	Tedrow
B. Ph. Hiram College.		
Keating, David Thatcher. B. Ph.....	Second	Columbus
Kellough, Robert Wallace.....	Second	Range
Kelly, J. Reid.....	First	Lakeside
Kennard, Oron Ellsworth.....	Second	Chester Hill

\*Died October 12th, 1900.



	Year	Home Address
Kinzel, Harry Gilbert.....	Third	Eagleport
Kramer, John Franklin.....	Second	Butler
A. B. Ada Normal.		
Kremer, Theodore John.....	Second	Miltonsburg
Ladd, Jonathan E.....	Third	Bradner
Lambert, Elza J.....	First	Plantsville
Lash, Henry Lloyd.....	Third	Bolivar
Laybourne, Lawrence E.....	Second	Springfield
Leach, Arthur Othello.....	First	Peerless
Leas, Charles Russell.....	First	West Sonora
A. B. Ada Normal.		
Leeper, Charles Foster.....	First	Marietta
Leet, Louis John. B. L. Hiram College.....	Second	Freedom
Leonard, Ralph Sherman.....	Second	Granville
A. B., A. M. Denison University.		
Lerch, Ira William.....	Third	Canal Fulton
Lindsay, George Wilbur.....	First	Com'ercial Point
Lloyd, Erastus Guy.....	Third	Westerville
Luckhart, Cyrus Floyd.....	Second	Columbus
Luse, James Herbert.....	First	Sandusky
Lynch, John Woods.....	Third	Greenville
Madden, Ernest C.....	First	Columbus
Mallow, Lewis Earl.....	Third	Washington C. H.
Mattison, George C.....	Third	Wauseon
Maxwell, Earl Frederick.....	First	Xenia
Miller, James Wilford.....	Third	Bucyrus
Milligan, Charles Clinton.....	Second	Gnadenhutten
Minshall, Thaddeus Ellis.....	Third	Chillicothe
Moloney, William Patrick.....	First	Codding
Moore, Henry Curtis.....	Third	Bainbridge
Moore, Lyman Gooderl.....	First	Quaker City
B. Sc. Ada Normal.		
Murphy, Frank Hayes.....	Third	New Comerstown
McAllister, Earl Sadler.....	First	Columbus
McCormick, Earl Dudley.....	First	Logan
McCulloch, Roscoe Conklin.....	Second	Millersburg
McGarry, James Frances.....	Second	East Liverpool
McGinnis, Cliff Earl.....	Second	Sidney
McSweeney, Fred Milton.....	Second	Sidney
McQuigg, Charles W.....	First	Pomeroy
Nary, Owen Benjamin.....	Third	St. Clairsville
Nash, Simeon.....	First	Zanesville
Needles, Harvey Harold.....	Second	Sidney
Nevin, Lurton K.....	First	Dayton
Nicholas, Edward Mithoff.....	Second	Columbus
Notestine, Emmett Vance.....	First	De Graff
Page, Walter, Jr. B. A. Yale.....	First	Columbus
Parsons, George M.....	First	Columbus
Pence, William D.....	Third	Tiffin
Pontius, Hubert C.....	Second	Canton
Porter, Albert Abner.....	Third	McConnelsville
Price, John H.....	First	Youngstown
Price, Jonathan. A. B. Sc. Ada Normal.....	Third	Chili

	Year	Home Address
Ragan, Eleanor Virginia.....	First	Napoleon
Reed, Bert.....	Third	Piqua
Reeves, Claude John.....	Third	Columbus
Riddle, Abner E.....	First	Columbus
Ridenour, Walter Ashton.....	First	Jackson
Riegle, Franklin P.....	Third	Hoytsville
Rightmire, George Washington.....	Third	Columbus
Rittenhouse, William Oscar.....	Second	Holgate
Robinson, Charles Grier.....	Third	Rockaway
Roche, George Emmett.....	Third	
Rockhill, John D.....	Third	Alliance
Roebuck, Carl Fletcher.....	Second	Dalton
Royon, Joseph Charles.....	Second	Houston
Sackett, Carl Leroy.....	Third	Big Horn City, Wyoming
Sager, Ward Cleland, B. A. Hiram Col.....	Second	Bryan
Sayre, Charles Boyd, B. A.....	First	Columbus
Schantz, Edwin Michael.....	Second	Zimmerman
Schoedinger, Frederick H.....	Second	Columbus
Seney, George Ebbert, Jr.....	Third	Toledo
Shaw, John William.....	Third	Troy
Sheetenhelm, Curtis Cicero.....	Second	Columbus
Sheetz, George William.....	Second	New Washington
Shotwell, Franklin Albert.....	Second	Marengo
Sigrist, Charles Ferdinand.....	First	Congress
Singleton, Charles Tod, B. Ph.....	First	Columbus
Skiles, Roscoe Carleton.....	Third	Shelby
Smith, Philotas M.....	First	Egypt
Smith, Stanley Robb.....	First	Columbus
Smith, Wellington Cornell.....	Third	Lytle
Snapp, Hugh Allen, A. B. Heidelberg.....	Third	Miamisburg
Snow, Mason J.....	Second	Columbus
Snyder, Fred Orton.....	First	Castalia
Sparks, Homer H.....	Second	Columbus
Sprague, William Ralph.....	Third	Columbus
Spurrier, Emerv Allen.....	Second	Chesterhill
Stahl, Charles Henry.....	Second	Winesburg
A. B. Ada Normal.		
Starkey, Neil. B. Sc. Ada Normal.....	First	Zanesville
Stehle, Frank Reinhard.....	First	Marietta
Steinemann, George Charles.....	Second	Minster
Stewart, George Francis.....	First	Coshocton
Stewart, Gilbert Holland, Jr.....	First	Columbus
Sullivan, Oscar M.....	First	Columbus
Swan, Frederick.....	First	Marietta
Tangemann, Theodore H.....	Second	Kettleville
Taylor, Everett Buren.....	Second	New Albany
Taylor, Frank Stewart.....	Second	Alliance
Terwilliger, Meeker.....	Third	Circleville
Thomas, Frank S.....	First	Harlem Springs
Thompson, King Gibson.....	First	Georgetown
Thompson, Ernest, B. Sc. Ohio Normal.....	Second	Bellefontaine
Tompkins, Haldan Urling.....	First	Chicago

	Year	Home Address
Turner, Edward C.....	Third	Columbus
Tuttle, Alonzo H.....	Second	Decatur, Ill.
Vandersall, Chester E.....	Third	Burgoon
B. Sc., L. L. B. Ohio Normal.		
Veneman, Nevin Edward.....	Second	Dayton
Wagner, Oscar Cecil.....	First	Kingston
Wakefield, George W.....	Third	Harrisburg
Walker, Mary Ray.....	First	Dayton
Walsh, George E.....	First	Columbus
Warper, Charles William.....	First	Akron
West, Frederick Rollin.....	Third	Columbus
Westwater, James Gulick.....	Second	Columbus
Wharton, Homer Franklin.....	Third	Washington
Wheeler, Newberry William, Jr.....	Third	Portland
Whitaker, William Earl.....	First	Colton
White, Charles E.....	First	Can'daigua, N. Y.
Whitmore, William G., A. B. Wooster.....	Third	Crestline
Williams, Cortez L.....	Third	Steubenville
Williamson, Allen Thurman.....	Third	Grandview
Wilson, Charles R.....	First	Circleville
Wise, Charles Clifton.....	Second	Millersburg
Ph. B. Hiram College.		
Wonders, Adelbert E.....	Third	Warren
Worcester, Wood Frank.....	Third	Columbus
Worman, Horace Dye.....	Third	Dayton
Wulff, August R.....	Third	Dayton
Yost, William Frank.....	Second	Minerva

## COLLEGE OF PHARMACY

	Course	Course Hours	Credit Hours	Home Address
Ackerman, Graham Burt.....	Long	208½	49½	Columbus
Ashinger, William E.....	Short	110	10	Upshur
Atkinson, Harry Churchill.....	Long	208½	23½	Pataskala
Atkinson, Joseph Barnard.....	Long	208½	74	Pataskala
Baltzley, Stanley M.....	Short	110	58	Massillon
Bodman, Edgar Sereno.....	Long	208½	108½	Bement, Ill.
Brown, William Roska.....	Short	110	43	Elyria
Cassady, Clyde Brint.....	Short	112	112+9	Alliance
Crosson, Stanley Berry.....	Short	112	85	Blanchester
Dickerson, Archie H.....	Short	110	43+9	Louisville, Ky.
Eberle, Louis Jacob.....	Short	110	5+3	Springfield
Enright, Josephine Helen.....	Short	110	33+6	Columbus
Funk, Roy William.....	Long	208½	177+5	Chesterhill
Grau, Charles Haafstrick.....	Long	208½	44½	Lucas
Hancock, William Stuart.....	Short	110	58+4	Wytheville, Va.
Harrison, Charles J.....	Short	110	...	Columbus
Higgins, Ernest J.....	Short	110	58+12	Adrian
Hoover, Walter Emmett.....	Short	112	112+12	Ashville
Johnson, Columbus.....	Short	110	25	Louisville, Ky.

	Course	Course Hours	Credit Hours	Home Address
Knisley, Alan D.....	Short	110	10+2	Lima
Krabill, Jesse Elden.....	Short	110	48	Columbus
Lefferson, Charles Henry.....	Short	110	62+19	Middletown
Morris, Harry Long.....	Special	...	189	Springfield
Murie, Lyne.....	Short	110	38+5	Columbus
McBride, Charles Robert.....	Short	110	64	Allentown
Pope, Harry Bentley.....	Short	112	109	East Liverpool
Royer, Ray.....	Short	112	54	Columbus
Seeds, Jesse Elmer.....	Short	110	...	Columbus
Snyder, Ray Bernard.....	Short	112	66+2	London
Thomas, Earle Jesse.....	Long	208½	50½	Findlay
Wagstaff, Harry Garfield.....	Special	...	155	Niles
Webb, Edward Nathan.....	Long	204	168	Rome
Wilson, Milo De Loyd.....	Short	110	43	Bowling Green
Young, Cyrus Homer.....	Long	B. Sc. Pharm.		Wooster

## COLLEGE OF VETERINARY MEDICINE

	Course Hours	Credit Hours	Home Address
Anders, Thomas Olin.....	175	54	Fremont
Bender, John Ellis.....	175	54	Louisville
Betts, Sugar Turner.....	175	51	Cambridge
Breckenridge, William Kemper.....	175	33+68	Watertown
Brown, Harry Wilber.....	175	109	Columbus
Choate, John Wesley.....	175	54	Columbus
Cook, George Edward.....	175	54	Tedrow
Dock, Norton.....	175	62+41	Cincinnati
Forrester, Harry Arthur.....	175	113	Reynoldsburg
Funes, Thomas L.....	175	25	Argentine Repub.
Heacock, Clyde Clark.....	175	54	Beloit
Henderson, Charles Logan.....	175	104	Crescent
Imes, Marion B. Sc.....	175	72	Bashan
Irwin, Albert N., D. V. M.....	...	...	Columbus
Johnson, Theodore Charlemagne.....	175	114	Akron
Lamb, Morgan Baxter, D. V. M.....	...	...	Barlow
Lipp, Charles Clinton.....	175	54	New Middletown
Meiche, Louis Hayes.....	175	73+56	North Royalton
Metzger, Edward Louis.....	175	169	Louisville
Moreno, Regino Teodoro.....	175	39	Corrientes, Arg. Rep., S. A.
McClelland, Robert Lyle, D. V. M.....	...	...	Andover
McLeod, Murdock.....	175	...	.....
Pettiford, Oscar Collins.....	175	104	Wauseon
Rietz, John Harrison.....	175	49+4	Gilmore
Sater, Clinton Huron.....	175	116	Sater
Severn Warren.....	...	...	Cuba, N. Y.
Wishard, William Howard.....	175	...	Greencastle, Pa.



## GENERAL SUMMARY

COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE —	
Graduate Students .....	8
Undergraduates .....	202
	<hr/> 210
COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE —	
Graduate Students .....	43
Undergraduates .....	439
	<hr/> 482
COLLEGE OF ENGINEERING —	
Undergraduates .....	508
	<hr/> 508
COLLEGE OF LAW —	
	220
COLLEGE OF PHARMACY —	
	34
COLLEGE OF VETERINARY MEDICINE —	
	27
Total .....	
	<hr/> 1,481
Names counted twice.....	16
Net total .....	
	<hr/> 1,465

## SUMMARY BY COUNTIES

Adams .....	3	Hancock .....	9	Pickaway .....	8
Allen .....	7	Harrison .....	2	Pike .....	5
Ashland .....	3	Henry .....	7	Portage .....	10
Ashtabula .....	13	Highland .....	4	Preble .....	11
Athens .....	6	Hocking .....	3	Putnam .....	9
Auglaize .....	11	Holmes .....	5	Richland .....	10
Belmont .....	16	Huron .....	11	Ross .....	22
Brown .....	2	Jackson .....	10	Sandusky .....	3
Butler .....	14	Jefferson .....	11	Scioto .....	12
Carroll .....	4	Knox .....	9	Seneca .....	15
Champaign .....	19	Lake .....	5	Shelby .....	9
Clark .....	14	Lawrence .....	4	Stark .....	20
Clermont .....	8	Licking .....	25	Summit .....	13
Clinton .....	10	Logan .....	7	Trumbull .....	9
Columbiana .....	18	Lorain .....	14	Tuscarawas .....	13
Coshocton .....	8	Lucas .....	9	Union .....	14
Crawford .....	13	Madison .....	16	Van Wert.....	3
Cuyahoga .....	16	Mahoning .....	12	Vinton .....	3
Darke .....	8	Marion .....	7	Warren .....	9
Defiance .....	5	Medina .....	12	Washington .....	13
Delaware .....	5	Meigs .....	8	Wayne .....	11
Erie .....	11	Mercer .....	1	Williams .....	7
Fairfield .....	16	Miami .....	22	Wood .....	10
Fayette .....	13	Monroe .....	2	Wyandot .....	3
Franklin .....	403	Montgomery .....	30	Alabama .....	1
Fulton .....	13	Morgan .....	15	Arizona .....	1
Gallia .....	4	Morrow .....	7	California .....	1
Geauga .....	7	Muskingum .....	20	Colorado .....	5
Greene .....	12	Ottawa .....	5	Connecticut .....	1
Guernsey .....	10	Paulding .....	2		
Hamilton .....	18	Perry .....	22		

## SUMMARY BY STATES AND COUNTRIES

Cuba .....	1	Minnesota .....	1	Texas .....	1
Georgia .....	2	Missouri .....	1	Virginia .....	3
Illinois .....	11	New Jersey.....	1	Washington, D. C.	1
India .....	1	New York.....	11	West Virginia.....	9
Indiana .....	6	Ohio .....	1378	Wisconsin .....	2
Japan .....		Pennsylvania .....	13	Wyoming .....	1
Kentucky .....		Porto Rico.....	1		
Michigan .....	2	South America....	5		



# GRADUATES





# GRADUATES

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The faculty of the Ohio State University are anxious to place a copy of each annual catalogue in the hands of every graduate. They will esteem it a favor if any alumnus who changes his residence will notify the Executive office of his new address and occupation. They will also be grateful for any information from any source, that may assist in making or keeping the Directory of the Alumni complete and correct.

## ALUMNI ASSOCIATION

### OFFICERS FOR 1901-1902

CHARLES P. SIGERFOOS, '89, Minneapolis, Minn.....	<i>President</i>
JAMES H. MCGREGOR, '94, New York City.....	<i>Vice-President</i>
LOWRY F. SATER, '95, Columbus.....	<i>Secretary</i>
MIRON A. SMITH, '92, Columbus.....	<i>Treasurer</i>
WILLIAM H. PAGE, '91, Columbus.....	<i>Orator</i>

### COMMITTEE ON COLLEGE AFFAIRS

MRS. HARRY I. ABBOTT, '93, Columbus.....	Term expires 1902
LORING HAPGOOD GODDARD, '92, Manora, Ohio....	" 1903
KARL T. WEBER, '97, Columbus.....	" 1904
BERTHOLD A. EISENLOHR, '98, Corning.....	" 1905
KENNETH D. WOOD, '81, Columbus.....	" 1906

### COMMITTEE ON NECROLOGY

DAISY M. SCOTT, '87, Columbus.....	Term expires 1902
EDWARD J. CONVERSE, '86, Columbus.....	" 1903
BERTHA SCOTT, '90, Columbus.....	" 1904

## OHIO STATE UNIVERSITY ASSOCIATION OF NEW YORK

ARTHUR B. TOWNSHEND, '78.....	<i>President</i>
33 West Thirty-third street.	
EMORY W. HARVEY, '96.....	<i>Secretary</i>
11 East Sixteenth street.	



# DIRECTORY

## A

- Abbott, Arthur Grant, 1899, B. Sc. (Agr.), Medina.
- Abbott, Royal A., 1900, B. Ph., Columbus, Fellow in Rhetoric, O. S. U.
- Ackerman, Eli Osborn, 1884, C. E., 2664 North High street, Columbus, Columbus Street Railway Co.
- Ackerman, Fremont, 1883, C. E., Los Angeles, Cal., civil engineer.
- Addison, Arthur Everett, 1895, B. Ph., 1900, LL. B., Columbus, teacher East High School.
- Addison, Louis Granville, 1892, LL. B., Columbus, attorney-at-law.
- Addison, Clarence Maywood, 1896, B. Ph., 1900, LL. B., Columbus, teacher Central High School.
- Agler, Eulalia, 1895, G. Ph. (Mrs. Whitford), Columbus, with Columbus Pharmaceutical Company.
- Albert, Louisa Mary, 1895, B. A. (Ohio Wesleyan University), 1896, G. Ph., Mrs. A. E. Vinson, Columbus.
- Aldrich, Chester H., 1888, B. A., LL. B., David City, Neb., attorney-at-law.
- Aldrich, Edgar S., 1897, M. E. in EE., Manager Livingston Water Power and Electric Light Company, Livingston, Mont.
- Alexander, St. Clair, 1893, M. E. in EE., Bridgeport.
- Alexander, Charles P., 1896, M. E. in EE., Canton, O., District Manager Northwestern Mutual Life Insurance Company.
- Allaman, William Ernest, 1896, G. Ph., Columbus, Student O. M. U.
- Allen, Edward Harrison, B. A. (Ohio Wesleyan University), 1899, LL. B., Lena.
- Allen, Lucy, 1897, B. A., 1900, M. A. (Mrs. George Smart), Columbus, O.
- Alsdorf, Percy Reed, E. M., Central City, Col., Standard Assay office.
- Alsdorf, Frederick Charles, 1892, E. M., Central City., Col., Superintendent Mt. Wilson Gold and Silver Mining Co.
- Alspach, Rufus Edwin, 1897, M. A. (B. A. Heidelberg), Thornville.
- Alvord, Justus Elvin, 1901, LL. B., Alvordstown.
- Amos, Frank Craig, 1901, LL. B., Sidney.
- Anderson, James T., 1884, B. A., Colorado Springs, Col., 1st Lieutenant U. S. Army.
- Anderson, Newton, M., 1898, B. Sc., Ashville, N. C.
- Andress, Edna A., 1900, B. Ph. (Mrs. Julius Stone) Columbus.
- Andrews, Albion Joseph, Jr., 1893, LL. B. (B. S., Ohio Wesleyan University), Zanesville.
- Andrews, Lincoln Elmer, 1893, LL. B., 1895, B. Ph., Columbus, attorney-at-law.
- Armstrong, Clara, 1901, B. Sc. (Dom. Sci.), Columbus.
- Armstrong, Edna, 1897, B. Ph., Columbus.
- Armstrong, William H., 1890, G. Ph., Marysville, druggist.
- Arnold, Charles Lincoln, 1890, B. Sc., 1894, M. Sc., West Eighth ave., Columbus, assistant professor in mathematics, State University.
- Arnold, Edwin E., 1898, M. E., Westinghouse Machine Co., Pittsburg, Pa.
- Atkins, G. Glenn, 1898, B. A., Burlington, Vt.
- Atkinson, Warren, 1899, M. E., Maintenance Department New York Telephone Company, Brooklyn, N. Y.



- Auld, James A., 1897, M. E. in EE., Columbus, with D. S. Auld, 76 East Gay street.  
 Austin, John Gustave, 1899, LL. B., Sparta.

## B

- Bachtell, Nellie May, 1895, B. A., New London, teacher.  
 Backhaus, Henry Ward, 1894, B. A., Wapakoneta, cashier People's National Bank.  
 Baer, Philip, Jr., 1897, B. Sc. (Agr.), Canal Dover, Dairy Farmer.  
 Bagley, Anna Gertrude, 1894, G. Ph., Columbus, with Hallwood Cash Register Company.  
 Baker, James Burt, 1898, LL. B., Salem.  
 Baker, John Ezra, 1897, B. A., 1898, LL. B., St. Paris.  
 Baker, William Hollister, 1892, B. Agr., Farmersville, Mo., farmer and stock raiser.  
 Baldwin, Elizabeth Grant, 1899, B. Ph., Columbus.  
 Baldwin, Zoa Belle, 1896, B. A. (Mrs. George Gugle), Arlington, O.  
 Ball, Danforth Ewers, 1901, B. Sc., Fellow in Astronomy, State University, Columbus.  
 Ball, Emma Leanna, 1895, B. Sc., 1896, M. Sc., Columbus.  
 Ball, Fred S., 1888, B. Ph., Montgomery, Ala., attorney-at-law.  
 Bancroft, Gay, 1898, B. A., Columbus, 26 West Gay street.  
 Barcus, Eliza D., 1900, B. A., Columbus.  
 Barcus, Miner, 1897, M. E., in EE., Schenectady, N. Y., with General Electric Company.  
 Barlow, Helen M., 1898, B. Ph., Columbus.  
 Barlow, Moses Henry, 1901, C. E., Columbus.  
 Barnaby, Charles L., 1898, C. E., 37 South Ninth street, assistant on Engineer Corps, Cincinnati Division, P. C. C. & St. L. Ry.  
 Barnaby, Josephine, 1896, B. Ph., Canton, O., teacher.  
 Barrows Harry Holbrooke, 1898, C. E.  
 \*Bartholomew, Clyde Stanley, 1896, C. E., died June 23rd, 1900.  
 Basterdes, Ada Mabel, 1890, B. Ph., Mankato, Minn., 509 S. Broad street, Principal and Critic Teacher, State Normal School.  
 \*Bates, Josephine M., 1881, B. Ph. (Mrs. Florizel Smith), died —, 1900.  
 Bates, Wesley, C., 1882, LL. B., 35½ N. High street, Columbus, Attorney.  
 Baughman, George W., 1897, G. Ph., Springfield, Pharmacist.  
 Beach, David Price, 1895, C. E., Wellsville, Pennsylvania Railroad Assistant Engineer Corps.  
 Beach Margaret Alice, 1891, B. Ph. (Mrs. Wilson Holman), Bayonne, N. J.  
 Beardsley, Orsamus D., 1898, B. Ph., Garrettsville.  
 Beattie, William Renick, 1894, B. Sc., 1897, M. Sc. (in Horticulture), Washington, D. C., U. S. Department of Agriculture.  
 Beck, Arthur Andrew, 1893, C. E., Columbus, Deputy County Surveyor.  
 Belden, Sanford Bonner, 1895, E. M., Manager Pittsburg Office Jeffrey Manufacturing Company.  
 Bell, Florence Louise, 1900, B. Ph., Columbus, 382 East Town street.  
 Bell, Mary Edith, 1894, B. Ph., teacher in Central High School, Columbus.  
 Bennet, Henry C., 1890, B. A., 100 Washington street, Chicago, Ill., Attorney-at-law.  
 Bennett, Samuel E., 1890, D. V. M., Kansas City, Mo., Government Meat Inspector.

- Bently, William Preston, 1885, B. Agr. (B. A. 1890, M. A. 1893, Bethany College) 15 Miller Road, Shanghai, China, missionary.
- Bertsch, Joseph Franz, 1896, LL. B., Columbus, 124 West Ninth avenue.
- Bibbee, George E., 1897, LL. B. (A. B. Ohio Wesleyan University), Columbus, 41 King avenue, attorney.
- Biebel, Herman Matthews, 1896, M. E. in EE., Chicago, Ill., electrical engineer with Western Electric Co.
- Bischoff, John Wallace, 1899, E. M., Robertsdale, Pa., engineer, Rockhill Iron and Coal Company.
- Bissing, William, 1893, M. E. in EE. (A. B. Johns Hopkins University), examiner in U. S. patent office, Washington, D. C.
- Blackburn, Frank H., 1896, M. E. in EE., Fostoria, Electric Engineer, Fostoria Incandescent Lamp Co.
- Blaire, Edward Grey, 1895, G. Ph., Shawnee, pharmacist.
- Blakiston, Anna Houston, 1897, B. Ph. (Mrs. Powell).
- Blakiston, Mary, 1893, B. Ph., Columbus, teacher in East High School.
- Bleiningner, Albert Victor, 1901, B. Sc., chemistry instructor in Ceramics, State University, Columbus.
- Blinn, Ray S., 1893, B. S.
- \*Bloom, Edwin M., 1893, B. Sc., died, 1894.
- Bloom, J. George, 1889, C. E., Chillicothe, division engineer B. & O. S. W. Ry.
- Bloomfield, Lloyd Morris, 1891, B. Agr., Central America.
- Bock, Harrison W., 1898, LL. B., 1899, B. Ph., attorney, Pittsburg, Pa.
- Bockius, Harry Graham, Ph. B. (Yale University), 1899, LL. B., Canton.
- Bodman, Mary E., 1898, B. Ph., Bement, Ill.
- Boehme, Adolps Joe, 1901, M. E., Youngstown.
- Boesche, Felix John, 1896, G. Ph.
- Boesel, Frank Tilden, 1896, B. Ph., student, Harvard Law School.
- Bogue, Ernest Everett, 1894, B. Sc. H. & F., 1896, M. Sc., Professor of Botany and Entomology, Agricultural and Mechanical College, Stillwater, Okla.
- Bohn, Frank A., 1900, B. Ph., 1901, M. A., Olmstead Falls.
- Bohn, William Edward, B. A. (German Wallace College), 1900, M. A., Olmsted Falls.
- Bond, Charles Grosvenor, 1899, LL. B., Columbus, 595 Oak street.
- Bone, John H., 1893, B. Sc., 1896, B. Sc., (Agr.), Shadeland, Ind.
- Booth, Lucy Adelaide, 1892, M. A. (B. A., Ohio Wesleyan University), 1894, Ph. D.
- Bope, George W., 1897, LL. B., Co'lumbus, third assistant director of law, 275 East State street.
- Bostwick, Homer Z., 1900, B. A., Columbus, Student O. S. U. Law School.
- Bott, George Robert, 1901, M. E., Columbus.
- Bowden, Harry W., 1900, C. E., Structural Department Illinois Steel Company, 579 E. Division street, Chicago, Ill.
- Bower, Jerome G., 1897, M. E., Motive Power Department P., C., C. & St. L. R. R., Columbus, O.
- Bownocker, John A., 1889, B. Sc., 1897, D. Sc., Columbus, associate professor of Inorganic Geology, State University.
- Boyd, Emma, 1888, B. Ph., 33 W. Woodruff ave., Columbus, teacher in the North High School.
- Boyd, James Ellsworth, 1891, B. Sc., Columbus, assistant professor of Physics, State University.
- \*Boyd, James G., 1897, D. V. M., died 1900.
- Boyd, Martin L., 1897, LL. B., Columbus, 265 East Eleventh Ave.
- Bradford, Ernst, 1892, G. Ph., Columbus, chemist, with N. W. Lord, O. S. U.

- Bradford, Joseph Nelson, 1883, M. E., 54 West Tenth Ave., Columbus, associate professor of drawing, State University.
- Brand, Harry Frank, 1896, B. Ph., 1897, LL. B., Worthington.
- Brandt, James Herbert, 1899, B. A., Greencastle.
- Brandt, Ulysses Sherman, 1895, B. A., Canal Winchester.
- Bratton, Alice, 1901, B. Sc. (Dom. Sci.) Columbus.
- Braun, Joseph G., 1897, G. Ph., Columbus, 802 South Champion avenue, Pharmacist.
- Brelsford, Harley, 1898, B. Ph., Christiansburg.
- Brewer, Charles Reed, LL. B., Bowling Green.
- Brewer, John Whitney, 1896, G. Ph., Columbus, 126 West Tompkins street, Pharmacist.
- Bright, Frederick I., 1900., LL. B., Logan.
- Britton, John Carr, 1898, B. Sc. (Agr.), Newton, O., State Horticultural Inspector, O. A. E. S.
- Brier, Harvey E., 1890, D. V. M., Tippecanoe City, veterinary surgeon
- Bronson, Herman S., 1897, LL. B. (B. L., Cornell University), Columbus, Attorney, 120 Wilson avenue.
- Brooks, Stanley Grange, 1901, B. Sc., Columbus.
- Brophy, James Francis, 1899, E. M., engineer for Cooper interests in Mercer and McDowell counties, Coopers, W. Va.
- Brown, Albert Marion, 1901, B. Ph., Wauseon.
- Brown, Frank, 1899, M. A. (A. B., Macalester College), teacher in High School, Ravenwood, Ill.
- Brown, Frederick W., 1888, E. M., chemist for Colorado Portland Cement Company, Portland, Colo.
- Brown, John Quincy, 1901, M. E., Oakland, Cal.
- Brown, Newton H., 1893, M. E. in EE., Newark, Del., professor of Electrical Engineering, Delaware College.
- Bruce, Charles A., 1895, B. A., Columbus, associate professor of Romance Languages, State University.
- Brumley, Daniel, 1895, C. E., assistant engineer Louisville & Nashville R. R., Louisville, Ky.
- Bruning, Henry Dietrick, 1896, C. E., Logansport, Ind., assistant engineer on P., C. & St. L. R. R.
- Buchenberg, Alvin E., 1900, M. E. in EE., Schenectady, N. Y.
- Buckman, Arthur Leslie, 1897, M. E. in EE., wire chief Central Union Telephone Co., Toledo.
- Buckman, Ola., 1895, B. Sc. (M. D., Cleveland University of Medicine and Surgery), Norwalk.
- Bunnell, Larone A., 1898, G. Ph., Dayton, Pharmacist.
- Burgess, James Henry, 1900, B. Ph., Big Horn, Wy.
- Burkett, Charles William, 1895, B. Sc. (Agr.), 1898, M. Sc. (Agr.), Durham, N. H., professor of Agriculture, New Hampshire State College.
- Burkett, Dora Van Buren, 1897, B. Ph., Columbus.
- Burns, James Ferguson, 1891, C. E., Hopkinsville, Ky., assistant engineer L. & N. Ry.
- Burr, Harriett G., 1897, B. A., Worthington.
- Butler, Blanche Woodruff, 1901, B. A., teacher in High School, Wellsville.
- Butcher, Frederic Eric, 1901., B. Ph., Buckland.
- Butler, James Marion, 1894, LL. B. (A. B., Ohio Wesleyan University), Carmel.
- Butterworth, William H., 1898, B. A., Columbus, 45 North Seventeenth street.
- Bygate, Harry Goldsmith, 1899, M. E., Draftsman, Homestead Steel Works, Munhall, Pa.
- Byers, Clara, 1894, B. Ph. (Mrs. Coles A. Raymond), Youngstown, O.



## C

- Cahen, Alfred, 1894, LL. B.
- Calkins, George Herbert, 1895, M. E. in EE., production clerk Gen. Electric Co., Schenectady, N. Y.
- Calkins, William Bartlett, 1898, G. Ph., New Straitsville, Chemist, Steel Works.
- Callender, Sherman D. Ph. B. (Oberlin College), 1898, LL. B.
- Calvin, Anthony B. (A. B. Northeastern Ohio Normal), 1900, LL. B., Youngstown.
- Cameron, Harry Ezra, 1901, C. E., Lisbon.
- Canfield, Charles H., 1897, D. V. M., Government Meat Inspector. Kansas City, Mo.
- Canfield, Dorothea Francis, 1899, B. Ph., graduate student, Columbia University, New York City.
- Canfield, Leander Randall, 1896, B. Ph., Chardon.
- Cannon, Anna Cathrine, 1901, B. Ph., Columbus.
- Capron, Marshall Fremont, 1888 M. E.
- Carr, Hugh Stanley, 1896, M. E. in EE., assistant professor Electrical Engineer, Lawrence, Kansas.
- Carr, James Gray, 1897, B. A., Coshocton.
- Carroll, Patrick Henry, 1894, E. M., Herrin, Illinois, Supt. Big Muddy Coal and Iron Co.
- Carroll, William Hunt, 1894, LL. B., Wilmington.
- Carson, Samuel George, Ph. B. (Hiram College, 1901, LL. B.), Warren.
- Carson, Samuel King, 1895, M. E. in EE., M. D. (Ohio Medical University), Acting Assistant Surgeon U. S. A., Manila, P. I.
- Cary, Charles R., 1900, LL. B., Millersburg.
- Cathcart, Josephine M., 1888, B. Sc., 1131 Cedar avenue, Cleveland, accountant.
- Canaga, George Orlando, 1895, LL. B. (B. A., Scio College).
- Catlin, Homer Clark, 1896, C. E., bridge draftsman McClintic-Marshall Construction Co., Allegheny, Pa.
- Cartwright, Henry Gilroy, 1895, LL. B.
- Cavanaugh, Andrew F., 1900, M. E., draftsman Holly Manufacturing Co., Lockport, N. Y.
- Cellarius, Frederick Julius, 1888, C. E., Dayton, assistant city engineer.
- Chamberlain, Helena W., 1884, B. A., Mrs. Ellis Lovejoy, Union Furnace.
- Chamberlain, Robert Marcus, 1901, B. Sc., Columbus.
- Chalmers, Agnes Florida, 1895, B. Ph.
- Chappell, Walter Evans, 1898, M. E. in EE., first-class electrician, U. S. S. Chicago, South Atlantic Station, S. A.
- Charters, William Filson, 1887, B. Ph., Sidney, tax inquisitor.
- Cherryholmes, W. K., 1881, B. Sc., M. D., Hamilton, physician.
- Ciley, Raymond, 1896, M. E., assistant to general superintendent D. E. Dion-Bonton Motorette Co., Brooklyn, N. Y.
- Clark, Alexander B., A. B. (Yale University), 1899, LL. B., Canton.
- Clark, Clarence J., 1899, C. E., draftsman county engineer's office, Chillicothe, O.
- Clawson, Clarence Alfred, 1899, B. Sc. (Agr.), 1900, D. V. M., 907 Penn street, Kansas City, Mo., assistant meat inspector Bureau of Animal Industry U. S. Dept. Agr.
- Clay, Albert Arlington, 1893, LL. B. (B. A., Tri-State Normal College), Hicksville.
- Claypoole, Bessie Smith, 1895, B. Ph., Columbus, student, 1080 North High St.
- Claypool, Charlotte Lake, 1892, B. Ph., Columbus, 1080 North High St.
- Clements, Frank Orville, 1899, M. Sc. (M. A., Otterbein University), Westerville.



- Clum, George V., 1893, B. A., Mendota, Ill., president of Mendota College.  
 Clum, Harry Ernest, 1899, B. Ph., 1901, LL. B., Columbus.  
 Cockins, Edith D., 1894, B. A., Columbus, registrar, State University.  
 Coddington, Edwin F., 1896, C. E., 1897, M. Sc., post-graduate student Berlin, Germany.  
 Cole, George Nathan, 1891, M. E. in EE., contractor railroad supplies, 265 Broadway, N. Y.  
 Cole, Marietta C., 1897, B. Ph., Columbus, 897 Franklin avenue.  
 Collins, Curtis, 1895, M. E. in EE., E. E. for S. A. Luzg Electrica & Rio Plata Electric Co., San Juan, Puerto Rico.  
 Collins, Walter Scott, 1901, B. A., Columbus.  
 Coney, William Hawks, 1894, B. Sc., Honolulu, S. I.  
 Connell, Laura Jewell, 1896, B. Ph., Columbus, teacher of German, 433½ Long street.  
 Connell, William A., 1886, E. M., secretary Va., Manganese Iron & Coal Co., Kansas City, Mo.  
 Connor, Alice M., 1900, B. Ph., Columbus, 44 McMillin avenue.  
 Connor, Ellen J., 1900, B. Ph., 1901, M. A.  
 Conradi, Albert Frederick, 1901, B. Sc. (Agr.), New Bremen.  
 Converse, Edward Jasper, 1886, B. A. (B. D., Yale University), Columbus, assistant pastor, First Congregational Church, 808 North High street.  
 Converse, Howard Pendleton, 1887, B. Sc., 166 Devonshire street, Boston, Mass., manager Boston office Cooper, Hewitt & Co., steel and iron manufacturers.  
 Converse, Walter, 1899, B. A., Plain City.  
 Conway, Hugh Lawrence, 1896, C. E., levelman new water works, Cincinnati.  
 Cope, Albert N., 1897, M. E. in EE., Columbus, foreman Columbus Street R. R.  
 Corner, Edith Carlisle, 1901, B. Ph., Columbus.  
 Corner, Florence, 1897, B. Ph., Columbus, 642 East Rich street.  
 Corns, Harry, 1887, B. A., Columbus, teacher in Central High School.  
 Corwin, Edwin E., 1880, B. A., Columbus, attorney-at-law, 1462 Neil avenue.  
 Cosley, Harvey Harter, 1901, C. E., Troy.  
 Cotes, Albert E., 1897, B. Sc., Columbus, medical student, Ohio Medical University.  
 Courtright, Elizabeth Pauline, 1901, B. A., Columbus.  
 Courtright, J. Loring, 1900, B. A., Circleville.  
 Coursault, Ida May, 1899, B. Ph., Columbus, 770 East Long street.  
 Coursault, Jesse H., 1893, B. A., 1898, M. A., Columbus, teacher in Central High School.  
 Courtright, Stella Van, 1901, B. Ph., Columbus.  
 Covell, Vernon Royce, 1895, C. E., Pittsburg, Pa., county engineer's assistant.  
 Crable, Arthur, 1901, C. E., Columbus.  
 Craig, Moses, 1889, B. Sc. (M. S., Cornell University, 1890), 1896, M. Sc. (H. F.), Orangeport, N. Y., teacher.  
 Cratty, John Mason, 1897, B. Sc.  
 Crawford, Mary, 1901, B. Sc. (Dom. Sci.), Blaine.  
 Crawford, Ira, Jr., 1893, LL. B. (B. S., Denison University), Dayton.  
 Crawford, William Sterling, 1888, B. Ph.  
 Croll, Alfred J. (A. B., Ohio Normal University), 1900, LL. B., Tontogany.  
 Cromley, Alva M., 1897, G. Ph., pharmacist, Circleville.  
 Crooks, Charles Melvis, 1892, B. A. (B. D., Harvard University, 1896), Colerain, Mass., pastor Congregational church.  
 Crowner, Delbert Alonzo, 1896, B. Sc. (Agr.), Wellsville, N. Y.

- Cummins, Henry Rollins, 1891, G. Ph., pharmacist Lake View Hospital Cleveland, O.
- Cunningham, Arthur, 1880, B. A., 107 Lincoln street, Columbus, book-keeper.
- Cunningham, Charles Gilman, 1901, B. Ph., Toledo.
- Cunningham, Edward Walker, 1894, C. E., Pittsburg Bridge Works, Pittsburg, Pa.
- Cunningham, George S., 1886, B. Ph., LL. B., Lancaster, attorney-at-law.
- Cunningham, John Ferguson, 1897, B. Sc. (H. & F.), 1899, M. Sc. (H. & F.), Cleveland, associate editor "Ohio Farmer."
- Curran, Bernard Franklin, LL. B., 1901, Corning.
- Curtis, Leigh Goodrich, 1899, C. E., Zanesville, Dept. M. of W., B. & O. R. R.

## D

- Daily, Henry G., 1892, D. V. M., Wooster, veterinary surgeon.
- Dally, John Randolph, 1899, LL. B., Centerburg.
- Damron, Carson W., 1897, M. E., chief draftsman Wagner-Palmros Manufacturing Co., Fairmont, W. Va.
- Daniels, David Edwin, 1893, LL. B., B. Ph., (Denison University), 1896, LL. M., Columbus, 1326 Madison avenue.
- Darby, Roscoe B., 1900., LL. B., Wauseon.
- Davenport, Adrian E., 1897, B. A., Columbus, 1449 Franklin avenue.
- Davidson, David Millen, 1894, B. A.
- Davidson, George Edwin, 1899, LL. B., East Liverpool.
- Davies, Jennie C., 1897, B. Ph., Columbus, 590 East Spring street.
- Davies, John Lodwick, 1894, LL. B., Columbus.
- Davis, Charles William, 1894, E. M., Colorado Springs, Col., care J. Mck. Terriday & Co., general mining business.
- Davis, Oscar Allen, 1897, M. E. in EE., Alliance, draughtsman Morgan Engineering Co.
- Davis, Vernon Hays, 1900, B. Sc. (Agr.), Columbus, assistant in Horticulture and Forestry, State University.
- Deahl, Walter Smith, 1896, C. E., 268 Fisk St., Pittsburg, Pa., Pittsburg Bridge Co.
- Deardurff, Carl Mason, 1895, B. A.
- DeLamater, Clayton William, 1884, A. B., LL. B., Omaha, Neb., attorney-at-law.
- DeLoffre, Andre, 1896, M. E. in EE., E. E. Silver Lake Mines, Silverton, Colo.
- DeLoffre, Samuel Middleton, 1895, B. A.
- Dennis, Jerry, 1892, LL. B., 1893, LL. M., Columbus, attorney-at-law, 690 Franklin avenue.
- Denny, Charles Wampler, 1901, M. E. in EE., Middletown.
- Derby, Alice Greenwood, 1901, B. Ph., Columbus.
- Derby, Florence Harlow, 1896, B. Ph., 1901, B. Sc. (Dom. Sci.), Columbus, 93 E. Fifteenth avenue.
- Detmers, Frederica, 1887, B. Sc., 1891, M. Sc., 1315 Neil avenue, Columbus, teacher.
- Devol, William Stowe, 1886, B. Agr., Redlands, Cal., newspaper reporter.
- De Wolf, Roger Dennison, 1901, M. E. in EE., fellow in E. E., State University, Columbus.
- Dice, Jesse Peck, 1898, LL. B., Akron.
- Dickinson, George Codwice, 1901, B. A., Circleville.
- Dickinson, Thomas Herbert, 1899, B. Ph., associate professor of Elocution and Oratory, Baylor University, Waco, Texas.

- Diemer, Hugo, 1896, M. E. in EE., assistant professor of mechanical engineering, Agr. College, Mich.
- Dietrich, Charles Henry, 1878, B. Sc.
- Dietrich, George C., 1898, B. Ph., Groveport, principal of High School.
- Dill, Dille Augusta, 1900, B. Ph., Columbus.
- Dill Raymond, 1901, M. E. in EE., Columbus.
- Doan, Frank C., 1898, B. Ph., Athens, professor of philosophy, Ohio University.
- Dollison, Harvey C., 1900, B. Sc., Columbus.
- Doney, Carl Gregg, 1891, B. Sc., 1893, LL. B., Columbus, pastor M. E. Church.
- Donham, Maurice, 1896, M. E., Warren, Pa., chief draftsman Jacobson Machine Manufacturing Co.
- Donham, William W., 1882, B. Sc.
- Doud, Harry Lee, Norwalk.
- Dowd, Charles F., 1900, B. Ph., Toledo.
- Dresbach, Mary, 1901, B. Sc. (Dom. Sci.), Columbus.
- Dresbach, Melvin, 1897, B. Sc., Columbus, Fellow in Physiology, State University.
- Drummond, William G., 1900, M. E., draftsman Brown Hoisting Machinery Co., Cleveland, O.
- Dubois, Wilbur L., 1900, B. Sc., Columbus, Fellow in Chemistry, State University.
- Dun, George William, 1884, B. Sc., Columbus, business manager "Columbus Citizen."
- Dun, John J., 1883, E. M., Fifteenth avenue, Columbus, consulting engineer.
- \*Dun, Walter Angus, 1878, B. Sc., M. D., died November 7, 1887.
- Dungan, Irvine Laird, 1892, B. Ph., Cincinnati, Lane Theological Seminary.
- Dunlap, Thaddeus Cox, 1895, M. E. in EE., manager Columbus Pneumatic Tool Co., Columbus, O.
- Dunlap, William Renick, 1895, B. Sc., Kingston, farmer.
- Dunlap, Robert R., 1900, M. E. in EE., testing department General Electric Co., Schenectady, N. Y.
- Dunnick, Edward, 1897, C. E., Mt. Vernon Bridge Co., Mt. Vernon, O.
- Durbin, Samuel Clyde, 1901, B. Ph., McConnelsville.
- Duvel, Joseph W. T., 1897, B. Sc., Wapakoneta
- Dye, Clair Albert, 1891, G. Ph., assistant professor of pharmacy, State University, Columbus.

## E

- Eagleson, Grace, 1897, B. Ph., Columbus, 601 Oak street.
- Eagleson, John H., 1900., B. A., Columbus, 601 Oak street.
- Eagleson, Joseph P., 1900, B. A., Columbus, 601 Oak street, student O. S. U. Law School
- Early, Franklin E., 1893, D. V. M., St. Louis, Mo.
- Easterday, Charles Todd, 1891, G. Ph., Wellston, Druggist.
- Eddy, William, 1900, D. V. M., Cleveland.
- Edwards, Mary Winifreda, 1897, B. A., New Richmond, Prin. of High School.
- Egbert, Knott C., 1890, B. Agr., post-graduate student Cornell University, Ithaca, N. Y.
- Eisenbise, Bertha, 1900, B. Ph., Columbus.
- Eisenlohr, Berthold A., 1898, B. Ph., Corning, mining engineer.
- Ellis, Charles, 1889, D. V. M., 3230 Locust street, St. Louis, Mo., veterinarian to Board of Health.
- Emery, Peyton Randolph, 1893, LL. B., London.

\*Dead.



- Emery, Vernon Judson, 1887, B. A. (A. M., University of Nebraska), Cleveland, assistant professor of Latin, Western Reserve University.
- Erf, Oscar, 1899, B. Sc. (Agr.), Champaign, Ill., Instructor in Dairying, University of Illinois.
- Erskine, John H., 1886, E. M., Lowellville, fire brick manufacturer.
- Estep, Frank Leslie, 1898, M. E. in EE., foreman Copper Rolling Mill Bridgeport Brass Co., Bridgeport, Conn.
- Evans, Ernest, 1892, B. Sc., Mingo Junction, chemist, Laughlin Junction Steel Co.
- Evans, Lyle Sanford, A. B. (Miami University), LL. B., 1901, Columbus.
- Evans, Peter Platter, 1892, C. E., King Bridge Co., engineer of erection, Cleveland, O.
- Evans, William Lloyd, 1892, B. Sc., 1896, M. Sc., Colorado Springs, Col., teacher of chemistry in High School.
- Ewalt, Clara Converse, 1901, B. Ph., Columbus.
- Eysenbach, Ernest E., 1896, E. M., Columbus, Superintendent Columbus Gas Co

## F

- Fairchild, Harmon Scott, 1894, LL. B., Springfield.
- Farber, Charles Harker, 1894, B. A., Columbus, with State Savings Association.
- Fassig, Oliver L., 1882, B. Sc., Baltimore, Md., instructor in Climatology, Johns Hopkins University.
- \*Fay, Frederick Willis, 1882, B. A., B. Arch., died August, 1892.
- Fay, Mona, 1897, B. Ph. (Mrs. Eugene Gee), Wheeling, W. Va.
- Feicht, Russell Stimson, 1890, M. E. in EE., Engineering Department Westinghouse E. & M. Co., Pittsburgh, Pa
- Feiel, Ida Louise, 1898, B. Ph., Columbus, 520 East Main street.
- Fenner, Jessie Albertus, A. B. (Wittenberg College), 1898, LL. B., Shiloh.
- Fergus, Guy Carlton, 1898, M. E. in EE., partner in Zanesville Electrical Co.
- Fergus, John Franklin, 1892, LL. B., Columbus, attorney-at-law.
- Fickes, Walter M., 1900, E. M. (Ceramics), manager Rosslyn Brick Co., Carnegie, Pa.
- Finley, Harry Marshall, 1894, B. A., McConnelsville, principal of High School.
- Fippin, Elmer Otterbein, B. Sc. (Agr.), Washington, D. C., Department Agr.
- Fischer, Paul, 1891, B. Agr., D. V. M., professor of Pathology, State University, Columbus, O.
- Fischer, Robert, 1895, G. Ph., 1896, M. Ph., 1898, B. Sc., Ithaca, N. Y., laboratory assistant, Cornell University.
- Fischer, Walter, B. Sc., Columbus, 810 Franklin avenue, fellow in Botany,
- Fish, Fred Alan, 1898, M. E. in EE., assistant professor Electrical Engineering, State University.
- Fisher, Clara, 1886, B. A. (Mrs. J. Porter Milligan), Columbus.
- Fisher, Georgietta, 1895, B. A., teacher in High School, Ottumwa, Iowa.
- Fisher, Ida May, 1900, B. Ph., Columbus.
- Fitzgibbon,, James Robert, 1894, LL. B., Newark.
- Fitterer, John Conrad, 1898, B. Sc., Bucyrus.
- Flickinger, George A., 1898, B. Sc. (Agr.), Knoxville, Tenn., instructor in Dairying, University of Tennessee.
- Floto, Julius, 1889, E. M., Chicago, Ill., Anaconda Copper Mining Co., Anaconda, Mont.
- Flynn, Benjamin H., 1898, C. E., Columbus, Eng. with State Board of Health.
- Flynn, Harry Franklin, 1892, C. E., Washington, D. C., U. S. Geodetic and Coast Survey.

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\*Dead.



- Flynn, Maud, 1896, B. Sc., Columbus, student, Columbus Normal School, 40 East Fifth avenue.
- Flynn, Oscar Rodgers, 1896, B. Sc.
- Foley, William J., 1894, D. V. M., Lexington, Ky.
- Ford, Nile Otis, A. B. (Washington and Jefferson), 1901, E. M., Wheeling, W. Va.
- Ford, Ruth L., 1898, B. A. (Mrs. Lorenzo Carlisle), Ashtabula, O.
- Ford, Stanley Hamer, 1898, B. Ph., 1st Lieut. in U. S. Army.
- \*Forgy, Ralph Morris, 1896, B. Ph., died March, 1899.
- Foster, Dudley Hampton, 1895, B. Ph., LL. B., attorney-at-law, Corning.
- Foster, Frank McMillan, 1894, M. E. in EE., with John N. Poage, Cincinnati, manufacturer water columns and valves.
- Foster, Israel Moore, 1898, LL. B., Athens.
- Foulk, Charles William, 1894, B. A., assistant professor Chemistry, State University.
- Fowler, Harry R., 1894, M. E. in EE., Toledo, electrical contractor.
- Fox, Charles P., 1890, B. Agr., 1895, M. Agr., Diamond Rubber Co, Akron, O.
- Fox, Frederick Hugh, 1896, B. Ph., McConnellsville.
- Fox, John Herbert, 1897, M. E., Cleveland, Brown Hoisting Machine Co., mechanical engineer.
- Fox, Ross G., 1900, B. Ph., Columbus.
- Francis, Edward, 1894, B. Sc., M. D. (Ohio Medical College).
- Francis, Mark, 1887, D. V. M., College Station. Brazos Co., Tex., professor of Veterinary Medicine, Agricultural and Mechanical College.
- Frankenberg, John Theodore, 1899, M. E. in EE., Columbus, 851 Neil avenue, with Central Union Telephone Co.
- Fravel, George B., 1888, M. E., mechanical engineer Pennsylvania Lines, Columbus, O.
- Frayer, Lee Ambrose, 1896, M. E., Columbus, Frayer & Miller, motor cycles.
- Frechtling, Arthur George Richter, 1901, M. E., Hamilton.
- Freeman, Stanton Sholes, 1898, E. M., superintendent St. Carbon Iron and Steel Co., Parryville, Pa.
- French, Thomas Ewing, 1895, M. E., Columbus, assistant professor of drawing, State University, 1458 Worthington street.
- Fritchle, Oliver Parker, 1896, B. Sc., Mt. Hope.
- Frost, George W., 1900, M. E., Columbus, fellow in Mechanical Engineering, Ohio State University.
- Fullmer, Edward L., 1897, B. Sc., 1898, M. Sc., Mitchell, S. D., University of South Dakota, professor of sciences.
- Fullerton, Charles Haywood, 1898, B. Ph., Wheelersburg.

## G

- Gains, Charles E., 1889, B. Ph., London, physician.
- Galbraith, John Howard, 1883, B. Ph., Columbus, journalist, 1087 Oak street.
- Gale, Cora C., 1893, B. Ph., Columbus, Oak street, near Grant.
- Gale, Franklin Henry, 1893, LL. M. (LL. B., University of Michigan), Columbus, 324 Oak street.
- Gallen, William Francis, 1897, M. E., Columbus, Jeffrey Manufacturing Co.
- Game, Reed Haskell, 1896, B. Ph., 1899, LL. B., Columbus.
- Gamper, Hedwig E., 1900, B. Ph., Columbus.
- Gamper, Herman, 1899, M. E., Ingersoll-Sargent Drill Co., Easton, Pa.
- Gayman, Charles W., 1900, B. Ph., Van Wert, Principal of the High School.

- Garber, Alberta D., 1889, B. Ph., A. M.
- Garber, John Murray, 1897, C. E., Mt. Vernon Bridge Co., Mt. Vernon.
- Garber, Levi L., 1898, B. A., Belleville.
- Garst, William Augustus, A. B. (Otterbein University and Harvard University), 1898, LL. B., Westerville.
- Gee, Eugene C., 1897, M. E. in EE., Wheeling, W. Va., wire chief C. D. & P. Telephone Co.
- Gehrkins, Edward Frederick, 1894, M. E. in EE., Schenectady, N. Y., with General Electric Co.
- Geissinger, James Allen, 1895, B. A., Pastor Centenary M. E. Church, Ripley, Ohio.
- Genheimer, Eli Thomas, 1896, B. Ph.
- Genheimer, William F., 1897, LL. B., Portsmouth, attorney.
- Gibbs, George C., 1893, B. A., Columbus, with Green, Joyce & Co.
- Given, James Byron, 1896, M. E. in EE., Western Electric Co., Chicago, Ill.
- Givens, Newton Edgar, A. B., 1896, LL. B., Waverly.
- Glover, Sioux, 1882, B. Sc. (Mrs. Horton), Errid, Pa.
- Goddard, Loring Hapgood, 1892, C. E., farmer. Manora, O.
- Good, Paul Revere, 1899, B. A., 1900, M. A., Westerville.
- Goodell, Ralph Spencer, 1892, C. E., Mt. Vernon, Mt. Vernon Bridge Co.
- Goodman, Joseph Clarence, 1896, LL. M., Columbus, 375 East Town street.
- Goodman, Sylvester Jacob, 1896, G. Ph., Philadelphia, Pa., student of Medicine, W. & J., Medical College.
- Gordon, Adelaide Cummins, 1896, B. Ph.
- Graham, Emery Eugene, 1898, M. E. in EE.
- Graham, Reuben Jacob, 1901, B. Ph., teacher in High School, Chillicothe, O.
- Grandle, Frank Albert, 1891, G. Ph., Centerburg, pharmacist.
- Grate, Charles Artemis, 1898, M. E., 814 Hough avenue, Cleveland.
- Graves, William L., 1893, B. A., 1897, M. A., assistant professor in Rhetoric, State University.
- Gray, Genevieve, 1898, B. Ph. (Mrs. Levi Rawson), Sistersville, W. Va.
- Gray, James Collam, 1892, LL. B., 1893, LL. M., Pittsburg, Pa., attorney P. R. Ry.
- Graven, D. Homer (A. B., Ohio Normal University), 1900, LL. B., Nashville.
- Green, Charles C., 1885, B. Sc., M. D., Beaver City, Neb., physician.
- Green, Jerome Joseph, 1893, M. E. in EE., Notre Dame, Ind., Notre Dame University, professor of Physics and Elec. Engineering.
- Green, Joseph Faust, 1899, M. E. in EE., Moline, Ill., electrical engineer, Moline Electric Elevator Co.
- Green, Robert Lee, 1892, G. Ph., Somerset.
- Greener, Gussie Howe, 1901, B. Ph., Columbus.
- Gregg, Frank B., 1889, B. Ph., M. D.
- Gregory, Hiram D., 1880, E. M., attorney-at-law, Covington, Ky.
- Griffin, Mark H., 1897, M. E. in EE., Toledo, O.
- Griffin, Theodore L., 1889, B. Sc., M. Sc., Columbus, chemist, 760 Mt. Vernon avenue.
- Griffith, David Mathias, 1896, LL. B., Kecksburg, Pa.
- Griffith, Wellington John, 1892, LL. B., Tiffin.
- Griffiths, Benjamin Lincoln, 1898, LL. B., Vaughnsville.
- Grimsley, George Perry, 1890, B. A., 1891, M. A. (Ph. D., Johns Hopkins University, 1894), Topeka, Kan., professor Natural History, Washburn College.
- Griswold, Lawrence William, 1892, B. A., 217 W. Twelfth street, New York City.
- Groff, Orsylla Ann, 1894, G. Ph., North High street, Columbus, pharmacist
- Groff, Warren Noble, 1896, B. A., 1899, LL. B., Tiffin.

- Goves, John Wesley, 1898, C. E., engineer for Sunday Creek Coal Co., Athens.  
 Gruen, Francis William, 1899, B. Ph., 1899, LL. B.  
 Guerin, Martha, 1896, B. Ph., Columbus.  
 Gugle, George Linville, 1896, LL. B., Columbus, attorney.  
 Gugle, Marie, 1897, B. A., Alexandria, Ind., teacher.  
 Guittard, Virgil, 1894, B. Sc., New Bedford.  
 Guitteau, William B., 1897, B. Ph., fellow in Political and Social Science, Cornell University, Ithaca, N. Y.  
 ♦ Guss, Sherman Hamlin, 1892, B. A., Clarksburg, W. Va., principal of the colored schools.

## H

- Haas, Frank, 1895, C. E., 1896, E. M., manager Blue Mountain Iron and Steel Co., Catoctin Furnaces, Md.  
 Hagler, Howard, 1889, B. Sc., Washington C. H., farmer.  
 Haigler, Charles Edmund, 1898, B. Sc., teacher Central High School, Columbus, Ohio.  
 Hale, Frederick James, 1898, M. E., 1900, M. Sc., Westinghouse Machine Co., gas engine department, Pittsburg, Pa.  
 Hall, Harry R., 1889, E. M., resident engineer Wellman-Seaver Engineering Co., Port Townsend, Wash.  
 Halterman, Oscar Elmore, 1895, LL. B., B. S. (National Normal University).  
 Hambleton, Ethel Ada, 1901, B. Ph., Columbus.  
 Hamilton, Charles R., 1893, B. A., Zanesville, Dun's Commercial Agency.  
 Hamilton, Frank Alexander, 1895, D. V. M., Dubois, Pa., veterinary surgeon.  
 Hammond, Bessie B., 1897, B. Ph., Columbus, 443 Mt. Vernon avenue.  
 Hammond, Harry J., 1900, D. V. M., meat inspector Bureau Animal Industry, Kansas City, Mo.  
 Hammond, Rose Lyttle, 1896, B. Ph., Columbus, teacher, 90 North Twenty-second street.  
 Hance, Harry Thomas, 1901, B. Sc. (Chem.), fellow in Chemistry, State University, Columbus.  
 Hancock, Winfield Scott (A. B., Marietta), 1900, LL. B., Marietta.  
 Hancock, David R., 1889, G. Ph., M. D., Columbus, Physician.  
 Haney, Thomas Carlyle, 1894, G. Ph., Columbus, pharmacist, corner Schiller and Third streets.  
 Hannum, William Hamilton, 1897, B. A., India, missionary.  
 Harbage, Arnett, 1893, D. V. M., West Jefferson, farmer.  
 Harkins, Robert R., 1900, M. E., Columbus, with Crass Harkins.  
 Harlor, John David, 1895, B. A., Columbus, teacher in Central High School.  
 Harper, Ellahue A. (B. A., Ohio Wesleyan University), 1900, LL. B.  
 Harper, Merritt, 1901, B. Sc. (Agr.), Grove City.  
 Harris, Charles Pearl, 1899, B. Ph., West Liberty.  
 Harris, Frank Laverne, 1894, LL. B. (Ph. B., Tri-State Normal University). Payne.  
 Harris, Walter Conger, 1893, B. Sc., New York, with Art Department of Herald, 104 West 114th St.  
 Harrison, Warner, 1892, LL. B., East Town street, Columbus, attorney and solicitor C., A. & C. Railway.  
 Harrison, William Henry, 1885, C. E., Clifton, Arz., civil and mining engineer.  
 Harrold, Ernst Ellwood, 1895, G. Ph., dispenser chemical store-room, State University.  
 Harrop, Herbert Bailey, 1898, B. Sc., Columbus, 1323 Forsythe avenue.  
 Hartsough, William H., Jr., 1898, B. Ph., Columbus, 1356 Hunter avenue.



- Hartwell, Arthur, 1888, M. E., Chicago, Ill., manager Chicago office Westinghouse E. & M. Co.
- Hartwick, Louis M., 1897, M. E., Colorado Fuel and Iron Co., Pueblo, Colo.
- Harvey, Arlington Corylle, 1896, B. Ph., 1897, M. A., 1899, LL. B., Columbus, 145 King avenue.
- Harvey, Emory Wayland, 1896, B. Ph., 11 East Sixteenth street, New York City, Milton Bradley Co.
- Harvey, Florence Danford, 1898, B. Ph. (Mrs. Rogers), Columbus.
- Harvey, Sherman Lee, 1896, G. Ph., Columbus, druggist.
- Harward, Arthur B., 1900, B. A., Columbus.
- Hassler, Robert Hanich, 1892, M. E. in EE., electrical engineer American Bicycle Co., Indianapolis, Ind.
- Hastings, Edwin George, 1898, B. Sc., Austinburg.
- Hauk, Will Comrie, 1901, B. A., South Charleston.
- Hayden, Cassius Clay, 1901, B. Sc. (Agr.), Oakdale.
- Hayes, Seth, 1892, B. Sc., Fremont, principal of High School.
- Hayman, William C., 1900, M. E. in EE., testing department General Electric Co., Schenectady, N. Y.
- Hayward, George E., 1893, C. E., roadmaster C. & St. P., M. & O. R'y, Mankato, Minn.
- Hazelton, Bird, 1898, B. Ph., New Straitsville.
- Hazlet, Robert, Jr., 1887, C. E., Wheeling, W. Va., consulting civil engineer, county engineer and chief engineer N. O. U. Electric R'y.
- Heacock, William Preston, 1898, LL. B., Cardington.
- Heath, Arthur T., 1887, G. Ph., analytic chemist, consulting engineer and contractor, Ashtabula, O.
- Hebble, Charles Roy, 1896, M. E. in EE.
- Hedges, Harry, 1888, B. A.
- Heller Albert Henry, 1890, C. E., assistant to vice president American Bridge Co., New York, N. Y.
- Henderson, Adelbert Andrew, 1898, C. E., transit man, county engineer, Pittsburgh, Pa.
- Henretta, Charles Michael, 1896, E. M., mining engineer, Fernic, B. C.
- Herbert, Charles T., 1897, LL. B., Columbia, South America.
- Herms, Edith S., 1898, B. Ph., Portsmouth.
- Herrick, Louise, 1893, B. A. (Mrs. Harry Abbott), Columbus, 1454 Highland St.
- Hershey, Harry Hartman (A. B., Mt. Union College) 1900, LL. B., East Greenville.
- Hertner, John H., 1899, M. E. in EE., foreman of machine shop, Lincoln Electric Co., Cleveland, O.
- Hess, Florence Louise, 1895, B. Ph., Columbus.
- Hewitt, Strafford Reaves, 1898, M. E. in EE., engineer for Columbus Mine and Mill Supply Co., Columbus, O.
- Hiatt, William Arthur, 1895, B. Ph., New York City, teacher in Stevens School, Hoboken, N. J.
- Higbee, Charles E., 1883, B. Sc.
- High, Odessa, 1896, B. A., West Jefferson.
- Hill, Frank E., 1886, B. Sc., M. D., Muncie, Ind.
- Hill, I. T. Reynolds, 1896, B. Sc. (H. & F.), Toledo, O., Woolson Spice Co.
- Hine, James S., 1893, B. Sc., Columbus, assistant professor of Entomology, State University.
- Hine, Lucius A., 1888, E. M., 140 50th street, Chicago, Ill., President and Treasurer Hine-Watt Manufacturing Co.



- Hipple, John Merton, 1898, M. E. in EE., Westinghouse E. & M. Co., Wilkesburg, Pa.
- Hirsch, Gustav, 1897, M. E. in EE., Columbus, engineer, Citizen's Telephone Co.
- Hirsch, Rudolph, 1901, B. Sc., Columbus.
- Hirst, Anna Brewster, B. A. (Antioch College), 1900, M. A., Yellow Springs.
- Hoel, Sarah Elizabeth, 1893, B. Sc. (Mrs. W. M. Mills), North Tonawanda, N. Y.
- Hoffman, Arthur Sullivant, 1897, B. A., Troy.
- Hoffman, Hattie D., 1900, B. Ph., Columbus.
- Holcomb, Harry John, 1901, B. A., Columbus.
- Homan, Frank, 1895, C. E., Cannelton, W. Va., general manager and treasurer of Raven Coal and Coke Co.
- Hood, Sherman, 1894, B. Sc., Meander, gardner.
- Hoover, Frederic Roland, 1899, B. Ph., Columbus.
- Hopkins, Charles Delnow, 1893, LL. B. (B. A., Ohio Wesleyan University), Athens.
- Horton, Henry Pomeroy, 1889, B. Ph.
- Hough, Benson Walker, 1899, LL. B., Delaware.
- Houghton, Henry Spencer, 1901, B. Ph., Cincinnati.
- Houseman, Ruth U., 1897, B. Ph., Painesville, teacher in High School.
- Houston, Anna Christine, 1892, B. Ph., 1895, M. A., Marysville.
- Hovey, Clark Samuel, B. A. (Buchtell College), 1898, LL. B.,
- Howald, Ferdinand, 1878, B. Sc., 1881, E. M., Rush Run, W. Va., manager of mining operations.
- Howard, A. B., 1883, B. Ph., Jackson, Miss., clergyman.
- Howard, Anna F., 1900, B. Ph., died January, 1901.
- Howard, Curtis C., 1878, B. Sc., M. Sc., 115 Jefferson avenue, Columbus, professor of Chemistry in Starling Medical College.
- Howard, Fanny Fern, 1896, B. A. (Mrs. McDonald Mitchell), Charleston, Ill.
- Howard, Edward Davenport, 1894, LL. B., 1896, LL. M., Columbus, attorney.
- Howard, John Wilmot, 1895, B. Sc., Columbus, assistant secretary, Board of Trade.
- Howells, E. S., 1884, E. M., Massillon, engineer Howels Mining Co.
- Howells, Thomas J., 1897, E. M., Steubenville, O., Mingo Works National Steel Co., Mingo Junction, O.
- Hubbard, Ralph Newton, 1891, B. Sc., Columbus, Columbus Machine Co.
- Hughes, Raymond Mollyneaux, A. B. (Miami University), 1897, M. Sc., Miami University, professor of Chemistry.
- Huddleson, Don Carlos, 1897, G. Ph., Columbus, instructor in Gymnasium, State University.
- Huffman, Lillian Stuart, 1899, B. Ph., Columbus, 389 East Rich St.
- Huggins, Burch Delaplaine, 1899 B. Ph., Hillsboro.
- Hull, Mary Louise, 1894, B. A. (Mrs. C. H. Farber), Columbus, 392 West Seventh avenue.
- Humphrey, J. Scott, 1879, B. Sc., Findlay, civil engineer.
- Humphreys, Leona, 1895, B. A.
- Hunt, Mary Fulton, 1901, B. Ph., Columbus.
- Hunt, William Franklin, 1887, M. E. (LL. B., 1895, LL. M., 1896, University of Minnesota), attorney-at-law, New York Life Building, St. Paul, Minn.
- Hunter, Joseph Symmes, 1901, B. A., Hamilton.
- Hunter, Madone C., 1900, M. E. in EE., with Western Electric Co., Chicago, Ill.
- Huntington, Arthur, 1899, M. E., Evanston, Ill., chief engineer electrical plant.
- Huston, Charles H., 1897, LL. B. (B. S., Tri-State College, Ind.), Mansfield
- Hyde, Wilby Grimes, 1887, B. A. (LL. B., Cincinnati), Chillicothe, attorney-at-law
- Hyle, Charles A., 1896, M. E. in EE., U. S. Weather Bureau, Kansas City, Mo.

## I

- Imes, Marion, 1899, B. Sc. (Agr.), 1901, D. V. M., Durham, N. H., New Hampshire State College, assistant in Dairying and Veterinary Medicine.  
 Ingram, Imogene, 1897, B. Ph., Columbus.  
 Innis, Lyman H., 1893, B. A., 1895, LL. B., Columbus, attorney, 323½ South High.  
 Ireland, Guy Llewellyn, 1895, M. E.  
 Irvin, Chadwick H., 1897, M. E., Sharon, Pa., Sharon Steel Co.  
 Irwin, Albert Newton, 1901, D. V. M., Washington, D. C.

## J

- Jackson, Frank Pierce, 1892, LL. B., 1893, LL. M., Columbus, attorney, 82 South Washington avenue.  
 James, Florence May, 1896, B. A. (Mrs. Oscar R. Flynn), Chicago, Ill.  
 Jaynes, Allan B., 1900, Washington, D. C., Census Department.  
 Jeffrey, James Fred, 1900, B. Sc., Columbus.  
 Jeffrey, Maud Dorothy, 1895, B. Ph., assistant in library, State University.  
 Jenkins, William B., 1893, C. E., Bellefontaine, draftsman Bellefontaine Bridge and Iron Co.  
 Jenkins, Willis H., 1894, C. E., transit man P. C. & St. L. R'y, Carnegie, Pa.  
 Jennings, Irvin G., 1899, LL. B., Zanesville.  
 Jennings, Levi E., 1897, M. E. in EE., Eaton, O.  
 Johnson, Charles W., 1896, M. E. in EE., Norwood, Cincinnati, chief draughtsman Bullock Electric Mfg. Co.  
 Johnson, Earle S., 1900, M. E. in EE., Western Electric Co., Chicago, Ill.  
 Johnston, George Edward, 1892, C. E., L. & N. R. R., Louisville, Ky.  
 Johnson, Herbert Lincoln R., 1892, M. E. in EE.  
 Johnston, Frederick Symmes, 1899, B. Sc. (Agr.), assistant professor of Agriculture, Perdue University.  
 \*Jones, A. A., 1886, C. E., died May, 1894.  
 Jones, Arthur James, 1898, M. E. in EE., Wilksburg, Pa., Westinghouse Electric and Manufacturing Company.  
 Jones, Aaron Wesley, 1891, B. Sc., Columbus, Gardner Insurance Agency.  
 Jones, Alexander Houston, 1895, M. E. in EE., consulting electrical and mechanical engineer, St. Louis, Mo.  
 Jones, Benner, 1897, LL. B., Jackson.  
 Jones, Daniel D., 1893, G. Ph., Gallipolis, pharmacist, Epileptic Hospital.  
 Jones, Hanby Raymond, B. Ph., (Otterbein University), 1901, LL. B., Westerville.  
 Jones, Jesse Lee, 1890, B. A., Philadelphia, Pa., chemist, William Cramp & Sons, Ship Builders.  
 Jones, Paul, 1880, B. A., Columbus, attorney-at-law.  
 Jones, Pearl N., 1892, M. E. in EE., engineer and salesman Westinghouse E. & M. Co., Wilksburg, Pa.  
 Jones, Richard Thomas, 1900, B. Ph., Columbus.  
 Jones, Smiley, 1894, E. M., Prescott, A. T., superintendent Empire Gold Mining and Milling Co.  
 Jones, William Francis, 1896, D. V. M., Cincinnati, Miami Medical College.  
 Judd, Horace, 1897, M. E., 1899, M. Sc., Brooklyn, N. Y., Instructor, Pratt Institute.  
 Judkins, Clyde H., 1897, LL. B. (A. B., Scio College), Flushing.  
 Junk, Harry Prior, 1895, LL. B., Columbus, attorney-at-law, 387 Oak street.

## K

- Kanmacher, Samuel H., 1900, M. E. in EE., testing department General Electric Co., Schenectady, N. Y.
- Kauffman, Henrietta Christine, 1901, B. Ph., Columbus.
- Kauffman, Margaret Glenn, 1901, B. Ph., Columbus.
- Karshner, George M., 1900., B. A., Columbus, student, O. S. U. Law College.
- Keagle, Anna Brown, 1895, B. Ph., Columbus, teacher North High School, 59 West Fourth avenue.
- Keating, David Thatcher, 1899, B. Ph., Columbus, 1317 East Broad street.
- Keffler, Frederick, 1892, M. E., 31 Nassau street, New York City.
- Keifer, William White, 1886, B. A. (LL. B., Cincinnati), Springfield, attorney-at-law.
- Keiser, Romeo Orpheus, 1892, B. Sc., 1896, G. Ph., '98, M. D., O. M. U., '99 M. D., Cleveland Homeopathic Medical College, physician, Columbus.
- Kellerman, Ivy, 1898, B. A., 1899, M. A. (Cornell University), Ithaca, N. Y., student, Cornell University.
- Kellicott, William E., 1898, B. Ph., Columbia University, New York.
- Kellison, Edward Lafayette, 1897, B. Ph., 1900, LL. B., Quincy.
- Kemmler, Edward A., 1888, C. E., 895 S. High street, Columbus, assistant city engineer.
- Kerr, Samuel Thompson, 1894, M. E. in EE., Martins Ferry, superintendent Municipal Electric Light Plant.
- Kersey, William Rufus, 1899, M. A. (B. A., Earlham College), Columbus, 433 East Town street.
- Kershaw, Francis Stewart, 1891, B. Ph., Boston, Mass.
- Kershaw, Samuel Charles, 1892, B. Ph., Columbus, Weisman, Lilley & Kershaw.
- Kester, Fred. Edward, 1895, M. E. in EE., Columbus, instructor in Physics, Ohio State University.
- Kettler, Frank Christian, 1901, C. E., New Bremen.
- Kiesewetter, Louis Frank, 1891, C. E. (A. B., Harvard, '92, and A. M., '93). Columbus, Cashier Ohio National Bank.
- Kiler, Abdel William, 1896, G. Ph., druggist, Columbus, Eighth and High streets.
- Kinder, Gordon D., 1900, B. Ph., "Pittsburg Post," Pittsburg, Pa.
- Kimberley, Charles H., 1900, B. Sc., 1901, M. Sc., pharmacy, Columbus.
- Kink, Herbert Sumner, 1901, C. E., Medina.
- King, Robert James, 1899, B. A., Zanesville.
- Kirby, Harriet R., 1898, B. A., Columbus, teacher in North High School
- Kirk, George Barlow, 1901, B. A., teacher in High School, Mechanicsburg.
- Kirker, Harry L., 1889, B. Sc., with the Westinghouse Company, Sodelee Boite 56, Havre, France.
- Kiser, Katherine Daniel, 1895, B. A., Columbus, teacher in High School, 81 Miami avenue.
- Klein, David, 1900, B. Ph., Columbus.
- Kline, Charles H., 1897, M. E. in EE., Dayton, city engineer and deputy county surveyor.
- Knauss, William Henry, 1895, B. Sc., student, Starling Medical College, 1317 Dennison avenue.
- Knecht, Arthur Edward, 1898, M. E., Cincinnati, O., Screw and Tap Co.
- Knight, Caroline E., 1900, B. Ph., Columbus.
- Knight, Ruby Ray, 1895, B. Sc., Middleport.
- Knight, William A., 1900, M. E., Columbus, assistant professor of Machine Shop Practice., State University.



- Knopf, Eva S., 1895, B. Ph., Columbus, teacher in North High School.  
 Knopf, George W., 1883, B. Sc., Pittsburg, Pa., bridge builder.  
 Knox, Frank Stewart, Jr., 1900, E. M., resident engineer Federal Coal and Coke Co., Grays Flat, W. Va.  
 Kohl, Clayton Charles, 1901, B. Ph., teacher in High School, Mechanicsburg, O.  
 Kohr, Dnoald Alexis, 1898, B. Ph., 110 Huntington avenue, Boston, Mass.  
 Krauss, Bertha Katherine, 1892, B. Ph., Ottawa.  
 Kreiger, Charles Henry, 1887, G. Ph., Columbus, superintendent the Kauffman-Lattimer Co.  
 Krumm, Charles S. M., 1896, B. Ph., 1898, LL. B., Columbus, attorney, 277 South Eighteenth street.  
 Krumm, Herbert Zettler, 1898, B. Ph., Columbus, 975 South High street.  
 Krumm, Lillian Louise, 1895, B. Ph. (Mrs. Harry Rush Wilson), Columbus, 1459 Bryden Road.  
 Krumm, Louis Ralph, 1898, M. E. in EE., engineering department Columbus Citizens' Telephone Co., Columbus, O.  
 Krupp, William Emil, 1899, LL. B., Urichsville.  
 Kuhn, Valley Howard, 1896, M. E. in EE., Etna.  
 Kuhn, Harry Waldo, 1897, B. Sc., assistant professor of Mathematics, Ohio State University.

## L

- Lamb, Morgan Baxter, 1901, D. V. M., Barlow.  
 Lamb, Whitney E., 1900, M. E. in EE., testing department General Electric Co., Schenectady, N. Y.  
 Lamme, Benjamin G., 1888, M. E., Pittsburg, Pa., engineer, Westinghouse E. & M. Co.  
 Lamme, Bertha A., 1893, M. E. in EE., Pittsburg, Pa., Westinghouse E. & M. Co.  
 Landacre, Francis Leroy, 1895, B. A., assistant professor of Zoology and Entomology, State University.  
 Landacre, Walter Alexander, 1891, G. Ph., Columbus, assistant professor of pharmacy.  
 Landis, Walter Victor Titus, 1895, B. Ph., Dayton.  
 Lane, Quinton R., 1898, B. Ph., 1900, LL. B., Attorney, Columbus.  
 Large, Joseph H., 1890, C. E., draftsman, Massillon Bridge Co., Massillon, O.  
 Laughlin, Hugh Clarence, 1890, B. A. (A. M., 1895, University of Nebraska), 982 Jennings street, New York, teacher in High School for Boys and Girls.  
 Lavery, William F., 1890, D. V. M., meat inspector Bureau Animal Industry, Kansas City, Mo.  
 Lawrence, Arthur K., 1897, G. Ph., Columbus, 69 North Seventeenth street, Pharmacist.  
 Layton, Roy Everett, 1895, B. A., 1897, LL. B., Wapakoneta, attorney.  
 Lee, Corless E., 1900, M. E. in EE., with General Electric Co., Schenectady, N. Y.  
 Lee, Edwin S., 1893, G. Ph., Columbus, druggist, 144 West Ninth avenue.  
 Lee, Robert M., 1897, M. E., draftsman General Electric Co., Schenectady, N. Y.  
 Leffler, Edward Victor, 1896, G. Ph., Leipsic.  
 Lehman, John Wesley, 1899, B. Ph., Canal Winchester.  
 Lemert, Helen Ora, 1894, B. A., Columbus, teacher High School, 81 Twenty-second street.  
 Lentz, Alice B., 1897, B. Ph., Lloydsville.  
 Lentz, Florence, 1901, B. Ph., Marysville.  
 Lentz, Theresa, 1893, B. Ph., Bellaire, teacher in High School.



- Leonard, James Lincoln, 1893, LL. B. (B. S., Ohio Normal University), Welcome.
- Lesh, John Howard, 1901, M. E., Louisville.
- Levering, Orpheus D., 1893, M. E., foreman of tool room, Columbus Machine Co., Columbus, O.
- Lewis, Charles Montgomery, 1881, B. A., Columbus, with Columbus Evening Dispatch.
- Lewis, Thomas K., 1894, B. Sc., Columbus, assistant in drawing State University.
- Lincoln, Paul Martyn, 1892, M. E. in EE., Niagara, N. Y., assistant superintendent Niagara Falls Power Co.
- \*Lindo, William C., 1896, C. E., died, 1900.
- Linebaugh, Jesse J., 1899, M. E. in EE., Schenectady, N. Y., electrical engineer testing department General Electric Co.
- Linson, Irvin, 1882, B. A.
- Linville, Clarence P., 1900, B. Sc., Chemistry, Columbus, Fellow in Chemistry.
- Lisle, Charles H., 1900, B. Ph., Pataskala.
- Lisle, Dallas Gypsi, 1899, B. Ph., Ashland, Ky.
- Lisle, Leslie Mae, 1899, B. Ph., Columbus.
- Lisle, Mabel, 1897, B. Ph. (Mrs. Wm. Mead), King avenue, Columbus.
- Logan, Lavallette Lasea, 1896, E. M.
- Logsdon, Carey Lignori, 1899, B. Ph., Columbus.
- Logsdon, Clement Jay, 1898, G. Ph., Dayton, with Dr. J. C. Miller.
- Loomis, John Cooper, 1898, LL. B., Tiffin.
- Lott, Charles Milford, 1895, M. E. in EE., superintendent electric light plant, Hicksville, O.
- Loveberry, Clarence, 1896, D. V. M., meat inspector Bureau Animal Industry, Minneapolis, Minn.
- Lovejoy, Ellis, 1885, E. M., Union Furnace, superintendent Columbus Brick and Terra Cotta Co.
- Lovejoy, Jesse R., 1884, B. Sc., Schenectady, N. Y., with General Electric Light Co.
- Luce, George Ernest, 1897, LL. B. (A. B., Ohio Wesleyan University), Columbus, 95 Hamilton avenue.
- Luse, Clara E., 1897, B. Ph. (Mrs. Herbert Scott), Columbus.
- Lusk, William Vinton, 1893, D. V. M., veterinary surgeon U. S. 2d Cavalry, Santa Clara, Cuba.
- Lydenberg, Walter B., 1898, B. A., Dayton.
- Lynas, Caroline, 1898, B. A., Columbus, 109 West Gay street.
- Lynas, Charles E., 1898, B. A., Columbus, 109 West Gay street.
- Lyon, Arthur H., 1900, M. E., brick manufacturer, Memphis, Tenn.

## M

- Maag, Benjamin Franklin, 1899, M. Sc. (B. Ph., Wooster University), Mt. Eaton.
- MacGuire, Charles White, 1895, G. Ph., '97, M. D., Toledo Medical College, Toledo, Ohio.
- Machwart, Washington J., B. Sc. (Muskingum College), 1900, M. A., Mt. Eaton.
- Mackey, Ure LaVerne, 1893, M. E. in EE. (B. A., Wooster University).
- Magly, Robert O., 1897, G. Ph., chemist Miller-Wagoner-Fiesner Co., Columbus, O.
- Magruder, Leonard Anthony, 1895, B. Ph., 1896, LL. M.

- Maier, John Valentine, 1895, LL. B. (B. S., Northern Indiana Normal University).
- Malone, William Ruskin, 1885, B. A., New York City, with New York Life Insurance Co., room 1917, Park Row Building.
- Manecke, Gilbert, 1897, LL. B., Fostoria.
- Manley, Rush Emmett, 1894, M. E. in EE., manager of Exchange Central Union Telephone Co., Mt. Vernon.
- Mann, Wilber Edwin, 1899, B. Ph., 1900, M. A., Columbus, 1420 Wesley avenue.
- Marchworth, Otto Stanley, 1901, B. Sc. (Chem.), Cincinnati.
- Marple, Charles Allen, 1885, B. Sc., Louisville, Ky., teacher of Science, Male High School.
- Marquard, Frank Fred, B. L., 1896, C. E., Sharon, Pa., chemist Sharon Steel Co.
- Marshall, George Sidney, 1894, B. Ph., 1897, LL. B., Columbus, attorney, Second Assistant Director of Law, 1566 Neil avenue.
- Marshall, Willard B., 1900, M. E. in EE.
- Martell, Leonard Roland, 1898, B. A., Columbus, 1665 South High street.
- Martin, Edwin Dunlevy, 1891, B. Ph.
- Martin, George, 1897, M. E. in EE., wire chief Central Union Telephone Co., Youngstown, O.
- Martin, John Douglas, Jr., 1901, M. E., New Straitsville.
- Martin, Percy, 1892, M. E. in EE., Milan, Italy, Mediterranean Electric Co.
- Martz, Velorus, 1901, B. A., Columbus.
- Marvin, Charles Frederick, 1883, M. E., Washington, D. C., U. S. Weather Bureau.
- Mason, George F., 1890, G. Ph., Milwaukee, Wis., druggist.
- Masters, George Albert, 1886, C. E., Chicago, Ill., 4558 Oakenwald avenue, Western Library Association.
- Mathers, John Harrison, 1895, B. Ph., Conover.
- Mathias, Frederick W., 1893, B. Sc., Toledo, teacher High School.
- Matson, George H., 1892, G. Ph., 169 Hamilton avenue, Columbus, professor of Pharmacy, Ohio Medical University.
- Matson, William Edgar, 1896, M. E. in EE., Lynn, Mass, production department General Electric Co.
- Mauer, George Clifford, 1892, D. V. M., Oak Harbor, veterinarian.
- Mays, James Wesley, 1897, B. Ph., Columbus.
- McAllen, William Johnson, 1894, C. E., civil engineer Illinois Steel Co., Chicago, Ill.
- McCall, Arthur Gillett, 1900, B. Sc. (Agr.), field assistant Bureau of Soils, U. S. Dept. Agr., Washington, D. C.
- McCallum, Raymond, 1900, B. Ph., Dayton.
- McCarter, Edward Bancroft, 1892, B. A., 1894, LL. B., Columbus, attorney, 737 Bryden Road.
- McCarter, Flora, 1897, B. A. (Mrs. George McAuley), Columbus.
- McCarter, Robert Dale, Jr., 1895, M. E. in EE., 110 Cannon street, London, Eng., representing General Electric Co.
- McCleary, Clayton A. (Ph. B. Franklin College) 1900, LL. B., Lorain.
- McClelland, Chalmer Kirk, 1898, B. Sc. (Agr.), Andover, farmer.
- McClelland, Robert Lyle, 1901, D. V. M., Andover.
- McClure, Robert E., 1900, LL. B., Dayton.
- McCormick, J. H., 1880, M. E.
- McCormick, William Francis, 1896, M. E.
- McCulloch, George Elmer, 1891, B. Sc.
- McDonald, Joseph Sylvester, 1901, B. Ph., Rendville.

- McDowell, John Andrew, 1882, B. Sc., 949 Neil avenue, Columbus, cement engineer.
- McFadden, John Franklin, 1878, B. A., Columbus, attorney-at-law, 92 North Twenty-first street.
- McGregor, James Howard, 1894, B. Sc., New York, assistant in Zoology, Columbia University.
- McGrew, John Alexander, 1895, C. E., M. of W., Pennsylvania Railroad Co., Logansport, Ind.
- McGuffey, Francis Hoyt, 1894, M. E. in EE., Lima, O., designer.
- McIntire, Alfred Heber, 1898, M. E. in EE., 1900, M. E., Schenectady, N. Y., General Electric Co.
- McKinney, Frank Cowen, 1901, B. A., Columbus.
- McLaughlin, Annis, 1897, B. Ph. (Mrs. Henry Miller), Portsmouth, O.
- McLaughlin, James Audley, 1895, LL. B. (B. A., Monmouth College).
- \*McMakin, Amasa Brown, 1879, B. Sc., died May 22, 1891.
- McNary, George Bull, Jr., 1896, M. E. in EE., Toledo, traveling salesman, Bissel & Co.
- McPherson, William, 1887, B. Sc., 1891, M. Sc., 1895, D. Sc., 1899, Ph. D., University of Chicago, Columbus, State University, professor of Chemistry.
- Mead, Clinton V., 1884, B. Ph., Denver, Col., attorney-at-law.
- Mead, Rollo Nooman, 1895, D. V. M., meat inspector Bureau Animal Industry, St. Paul, Minn.
- Mebs, George H., 1897, G. Ph., Columbus, Pharmacist, Columbus State Hospital.
- Meek, Charles Wesley, 1894, LL. B., Toledo.
- Meek, Edward Duncan, 1896, B. A., 1899, M. A. Glencoe.
- Meek, William W., 1899, B. Ph., 121 Fifteenth avenue, Columbus, J. W. Meek & Co.
- Melick, Neil Albert, 1901, C. E., Columbus.
- Mendenhall, Maurice H., 1893, D. V. M., West Elkton.
- Menough, Arthur George, 1894, E. M., assayer and chemist, Wellsville, O.
- Mercer, Frank Emmet, 1896, M. E. in EE., Wauseon, O. manufacturer.
- Merrill Alice Louise, 1893, B. A., teacher, 318 W. 61st Place, Englewood, Ill.
- Merrill, Charles Wesley, A. B. (Denison University), 1898, LL. B., 326-330 The Nasby, Toledo, attorney.
- Merston, Ralph D., 1890, M. E., consulting engineer, 120 Broadway, New York City.
- Mesloh, Charles W., 1889, B. A., 1895, M. A., assistant professor of German, State University.
- \*Metters, Allen, 1896, B. A., died January 22, 1898.
- Metzger, Edward H., 1897, G. Ph., Columbus, assistant pharmacist, State Epileptic Hospital.
- Mickey, Blanche D., 1898, B. Ph., Shelby, teacher.
- Middleswart, Clarence Coulter, A. B. (Marietta College), 1898, LL. B., Constitution.
- Middleton, Ambrose, 1895, G. Ph., Malta, pharmacist.
- Miller, Carl James, 1898, B. Sc. (Agr.), Franklin, stock farmer.
- Miller, Charles C., 1883, B. A., Lima, superintendent schools.
- Miller, Daniel Elmer, 1890, G. Ph., Dayton, druggist.
- Miller, Frank Case, 1893, C. E., Dwight, Ill., Supervisor, Chicago and Alton R. R.
- Miller, Frederick A., 1901, B. Ph., Columbus.
- Miller, Gretchen P., 1900, B. Ph., Columbus, 1024 Highland street.



- Miller, Harry Franklin, 1889, M. E.  
 Miller, Henry P., 1897, D. V. M. Sunbury.  
 Miller, Merritt Finley, 1900, B. Sc. (Agr.) Ridpath.  
 Miller, Ralph Charles, 1901, C. E., Zanesville.  
 Miller, Walter McNab, B. Sc., 1885 (M. D., 1897, San Francisco Medical College, student Leipsig, Germany), Reno, Nev., professor of Anatomy and Physiology, State University.  
 \*Milligan, James Porter, 1886, B. A., died, February, 1899.  
 Mills, William C., 1898, B. Sc. (H. & F.), Columbus, curator Archæological collection, State University.  
 Milne, Alexander, B. D. (Yale University), 1898, M. A., Duluth, Minn., pastor Pilgrim Congregational Church.  
 Minshall, Thaddeus Ellis, 1901, LL. B., Chillicothe.  
 Mitzenberg, Allena May, 1901, B. Ph., Columbus.  
 Mix, Edward W., 1888, B. Sc., Paris, France, superintendent "Le Societi des Establishments."  
 Mix, Melvin Noble, 1895, B. Ph., New York, The World, journalist.  
 Mock, George Herbert, 1891, B. Sc., Ohio State Savings Bank, Columbus.  
 Mock, Marcia Inez, 1901, B. Ph., Columbus.  
 Montgomery, Howard, 1896, B. Ph.  
 Moodie, Alice Haynes, 1890, B. A. (Mrs. Arthur Hartwell), Chicago, Ill.  
 Moon, Victor C., 1900, B. Ph., Columbus.  
 Mooney, Charles Napoleon, 1900, B. Sc. (Agr.), field assistant Bureau of Soils, U. S. Dept. Agr., Washington, D. C.  
 Mooney, Daniel Francis, 1894, LL. B., St. Mary's.  
 Moore, Clarence Lemuel Elisha, 1901, B. Sc., Washington C. H.  
 Moore, Edgar Howard, 1900, B. Sc., Columbus.  
 Moore, Henry Curtis, 1897 B. Sc., LL. B., 1901, Washington C. H.  
 Moore, Virgil Owen, 1895, B. Sc., M. D., Toledo, 710 Starr ave., physician.  
 Morhart, Katherine Elizabeth, 1893, B. Ph., Pomeroy.  
 Morrey, Annie Eliza, 1896, B. A., Chester Hill.  
 Morrey, Charles B., 1890, B. A., 1896, M. D., Columbus, assistant professor Physiology, State University.  
 Morrey, William T., 1888, B. A., New York City.  
 Morris, Ingle H., 1900, LL. B., Columbus.  
 Morris, Clyde T., 1898, C. E., Youngstown, draftsman Youngstown Bridge Co.  
 Morris, Robert Hamilton, 1901, E. M., Columbus.  
 Morrison, M. Frank, 1879, B. A., Mrs. S. H. Short, London, England.  
 Morrison, Robt. O., 1893, C. E., New Castle, Pa., assistant on engineer corps Erie and Ashtabula division of Pennsylvania Lines west of Pittsburg.  
 Morrow, Charles James, 1900, D. V. M., meat inspector Bureau Animal Industry, St. Joseph, Mo.  
 Morton, George L., 1884, M. E. (LL. B., National Law School), chief examiner, patent office, Washington, D. C.  
 Moses, Martha Allston, 1891, B. Ph., 1111 Hinman ave., Evanston, Ill., book-keeper.  
 Moss, Blanche, 1898, B. A., Columbus.  
 Moss, William, 1898, G. Ph., Cambridge, O., Pharmacist.  
 Moyer, Henry E., 1893, B. Sc., Youngstown, chemist, Youngstown Steel Co.  
 Mull, Bert LaForrest, 1898, LL. B., Columbus, 114 Herman street.  
 Mullay, Annie, 1887, B. Ph., Chicago, teacher.  
 Mumma, Marion Wilson, 1901, B. Sc., Dayton.

\*Dead.



- Mundhenk, Fred., 1896, B. Ph., Columbus, life insurance agent, 233 North Eleventh avenue.
- Mundhenk, Herbert C., 1889, B. Ph., Brookville.
- Mundhenk, Ruth, 1899, B. Ph., Dayton.
- Munn, Mortimer Adam, 1894, C. E., Cleveland, civil engineer E. P. Roberts Co.
- Munson, Theodore, 1898, B. Sc., Zanesville.
- Murdoch, George Washington, 1901, B. Ph., Durango, Colo.
- Murray, Claude R., 1895, B. A., Middleport, principal of High School.
- Murry, Frank Erskine, 1892, D. V. M., meat inspector, Omaha, Neb.
- Myers, Albert B., 1900, E. M., engineer for Wagner & Palmros Manufacturing Co., Fairmont, W. Va.
- Myers, Joseph Simmons, 1887, B. A., Pittsburg, editor Pittsburg Post.
- Myers, Ord, 1895, M. E. in EE., inspector Metropolitan St. Ry. Co., New York.
- Myers, Roy V., 1893, C. E., Dayton, Tenn., Dayton Coal and Iron Co., Ltd.
- Myers, Uriah H., 1887, E. M., Pittsburg, Pa., printer and stationer.

## N

- Nagel, William G., 1895, M. E. in EE., Toledo, W. G. Nagel & Co., electrical supplies.
- Nauss, Ralph Welty, 1901, B. Sc. (Chem.), Greenville.
- Nash, Simeon, 1901, B. A., Columbus.
- Needham, Harry J., 1900, M. E., special apprentice Pennsylvania R. R., Indianapolis, Ind.
- Needels, Ada Ruckle, 1901, B. Sc., Groveport.
- Needles, Mana R., 1890, B. Ph. (Mrs. Kilpatrick), Owosso, Mich.
- Neill, Nelson Prentice, 1901, B. Sc. (Agr.), Venice.
- Nettleton, Arthur Warren, 1898, B. Sc. (Agr.), Medina.
- Newton, Henry S., 1889, B. Sc., Syracuse, N. Y., general manager Syracuse, Lakeside and Baldwinsville Ry.
- Newton, Samuel Donald, 1895, C. E.
- Nichol, Gertrude Belle, 1899, B. Ph. (Mrs. Addison), Columbus.
- Nicholson, Charles M., 1900, M. E. in EE.
- Nicola, Benjamin Di, 1900, LL. B., Barnhill.
- Nida, William Lewis, 1901, B. Ph., Northup.
- Nidy, Herbert C., 1901, M. E. in EE., Greentown.
- Niewahner, John Henry, 1891, B. A., Jackson, assistant cashier, First National Bank.
- Noble, W. F., 1879, B. A., Tiffin, attorney-at-law.
- Nold, John H., 1900, E. M., assistant to F. A. Ray, Columbus, O.
- Norris, John S., 1901, B. Ph., Columbus.
- Nurian, Kerson, 1899, M. E., Turtle Creek, Pa., Westinghouse E. & M. Co.
- Nutt, Arthur Chase, 1897, B. Ph., Lewiston, Me., Bates College.

## O

- Oetz, Francis Henry, 1896, G. Ph., '99, M. D., Starling Medical College, Columbus, physician.
- O'Brine, David, 1881, B. Sc., M. Sc., E. M., D. Sc., M. D., Urbana, physician.
- Odebrecht, August, 1895, G. Ph., Columbus, with H. Braun & Sons.
- O'Kane, Sarah Eliza, 1891, B. Ph. (Mrs. F. M. Raymond), 215 West Tenth ave., Columbus.
- O'Kane, Walter Collins, 1897, B. O., Troy, journalist.
- Orton, Clara Gregory, 1897, B. Ph., Columbus, 100 North Twentieth street.

- Orton, Edward, Jr., 1894, E. M., Columbus, professor of Ceramics, State University, State Geologist of Ohio.
- Orton, Samuel Torrey, 1901, B. Sc., Columbus.
- Orton, Walter Edwin, 1899, LL. B., Williamstown, Mass.
- Osborn, Abner A., 1900, B. Sc., Columbus.
- Osborn, Samuel Galloway, 1897, LL. B., Columbus, attorney, 275 East State street.
- Osborn, Raymond Carroll, 1898, B. Sc., 1900, M. Sc.
- Ozias, Albert N., 1889, M. Sc., Principal High School, Minneapolis, Minn.

## P

- Pabodie, Robert Jewett, 1899, M. E., Watertown, N. Y., Watertown Steam Engine Company.
- Page, William Herbert, 1892, LL. B., 1894, LL. M. (B. A., Yale), Columbus, professor of Elementary Law, State University.
- Palmer, Walter K., 1893, M. E., State University, Lawrence, Kan., associate professor, Department of Mechanical Engineering, University of Kansas.
- Parker, John Bernard, 1898, B. A., 1900, M. A., Danville.
- Parmenter, William W., 1900, B. A., Mt. Vernon.
- Parsons, George McLellan, 1901, B. Ph., Columbus.
- Patch, Homer Austin, 1896, C. E., Minneapolis, Minn., Draftsman, Gillette-Herzog Manufacturing Co.
- Patchell, Owen P., 1889, B. Ph., Paul's Valley, Indian Ter., attorney-at-law.
- Patchin, Rufus Harry, 1898, LL. B., Cleveland, 533 Society for Savings Building, attorney-at-law.
- Paterson, Bertha Gildersleeve, 1901, B. A., Columbus.
- Pavlicek, Frank Joseph, 1901, B. Ph., Toledo.
- Payne, Halbert Edwin, 1887, M. E., 256 Broadway, New York City, American Typewriter Co.
- Peal, Allen Saunders, 1895, B. A., Chicago, Ill.
- Pearce, George Dower, 1892, G. Ph.
- Pearl, Allen Sexton, 1894, M. E. in EE., Columbus, O., representative of Central Electric Company.
- Pease, Edward Livingstone, 1895, B. A., 1899, LL. B., Columbus, Indianola avenue.
- Pedlow, Edward Benjamin, 1893, C. E., New Straitsville, superintendent Columbus and Hocking Coal and Iron Co.
- Peppel, Samuel Vernon, 1899, B. Sc. (Chem.), assistant in Ceramics, State University, Columbus.
- Pence, David Arrel 1894, M. E., Lowellville.
- Perkins, Earl Harley, 1893, LL. B., Wellington.
- Perry, Elma Brooks, 1901, B. Sc. (Dom. Sci.), B. Ph., fellow in Botany, State University, Columbus.
- Perry, John Cole, 1901, B. Sc. (Agr.), Columbia Station.
- Peters, William Lincoln, 1885, M. E., Riverside, Cal., merchant.
- Pfarr, Philip Lewis, 1896, B. Sc. (Agr.)
- Phelps, Cyrus Alba, 1892, B. Sc., Sombereto, Jacataccas, Mexico, with Sombereto Mining and Milling Co.
- Pierce, John Mattison, 1895, M. E. in EE., South Charleston.
- Pilcher, Hastings Moore, 1895, M. E. in EE., electrician and engineer of C. C. Co., Cannellton, W. Va.
- Pitts, Grace Lenore, 1900, B. Ph., 1901, M. A., Columbus.
- Plantz, Wyatt Garfield, 1894, B. A., Pomeroy.

- Pleukharp, Chas. V., 1885, M. E., La Crescenta, Cal.  
 Plimmer, Gertrude Alice, 1896, B. Ph., Columbus, 1188 Oak street.  
 Polk, Walter C., 1895, C. E., superintendent of construction Central Union Telephone Co., Columbus, O.  
 Pomerene, Frank Etherington, 1891, B. Ph., 1895, LL. B., Coshocton, attorney-at-law.  
 Pool, Harwood Redington, 1881, B. Ph., LL. B., 62 Cedar street, New York City.  
 Porter, George Henry, 1901, B. Ph., New Philadelphia.  
 Porter, Mary Baxter, 1897, B. Ph.  
 Postle, Herman R., 1894, C. E., Columbus, E. Seventh avenue, teacher in North High School.  
 Postle, Kenneth F., 1894, B. A., Lancaster, Ky., teacher.  
 Poto, Frank Bert, 1901, B. Sc. (Chem.), Alliance.  
 Powell, Chas. S., 1893, M. E. in EE., Cleveland, representing Westinghouse E. & M. Co.  
 Powell, Edward Thompson, 1896, LL. B., Columbus, attorney, 518 East Broad street.  
 Powell, Norman Clemson, 1895, D. V. M., Damascus.  
 Prall, Anna Dickson, 1898, B. A., Columbus.  
 Pratt, Fred K., 1900, C. E., topographer Wheeling & Lake Erie R. R., St. Clairsville, O.  
 Price, Homer Charles, 1897, B. Sc. (Agr.), (M. Sc., Cornell, 1899), professor of Horticulture, Iowa State College, Ames, Iowa.  
 Priest, Frederick, 1895, D. V. M., Newark, veterinary surgeon.  
 Pryor, Charles Foster, 1898, LL. B., Columbus.  
 Pugh, Lawrence Randolph Whetzel, 1893, B. Ph., 1895, LL. B., Columbus, attorney-at-law, 13 Board of Trade.  
 Pulling, Margaret G., 1900, B. Ph., 1901, M. A., Columbus.  
 Pumphrey, John Homer, 1898, B. Sc., Clayton.  
 Putnam, Abbey Slocum, 1897, B. Ph.

## R

- Radcliff, Charles Anson, 1895, B. Ph., attorney, Jackson.  
 Randall, Emilius Oviatt, 1892, LL. M. (B. Ph., Cornell University), Columbus, attorney-at-law, professor in Law School, State University.  
 Randolph, Edward S., 1897, LL. B. (A. B., Ohio Wesleyan University), Somerset.  
 Rane, Frank William, 1891, B. Agr. (1892, M. Sc., Cornell), Durham. N. H., professor of Horticulture, New Hampshire College.  
 Rarick, Murray M., 1896, B. Sc. (Agr.), Jacksontown, physician.  
 Raser, Samuel Eugene, 1898, B. Sc., instructor in Mathematics, State University, Columbus.  
 Rawson, Levi, 1899, C. E., Sistersville, W. Va., Carter Oil Co.  
 Ray, Frank A., 1887, E. M., professor of Mine Engineering, State University, 137 King avenue, Columbus, O.  
 Ray, William M., 1893, C. E., room 825, Hickox Building, Cleveland, assistant engineer C. L. & W. R. R.  
 Raymond, Coles Abel, 1894, C. E., Toledo, O., bridge draughtsman.  
 Raymund, Frank M., 1888, B. A., Columbus, attorney-at-law, 215 West Tenth avenue.  
 Raymond, Maud, 1899, B. Ph., 1901, M. A. Columbus, 558 Rich street.  
 Redick, Mary Glisson, 1898, B. Ph. Findlay.



- Redrow, Walter L., 1900, B. Sc., Columbus.
- Reed, Robert Browning, 1896, M. E. in E.E., Zanesville, Zanesville Electric Co.
- Reed, William Allen, 1897, E. M., Querida, Colo, mining engineer Bassick G. M. Co.
- Rees, Edith Coleste, 1901, B. A., Columbus.
- Reese, David R., 1901, B. A., Shawnee.
- Reese, William Daniel, 1891, B. A.
- Reese, William Henry, 1896, G. Ph., Glen Roy, Pharmacist.
- Reeves, Archibald C., 1887, C. E., 153 Superior avenue, Dayton, assistant city engineer.
- Resler, Edwin D. (B. A., Otterbein), 1897, M. A. Westerville.
- Rice, Herbert A., 1897, C. E., Jackson, assistant principal High School.
- Rice, Mabel Elise, 1898, B. A., Columbus, Hubbard avenue.
- Rice, Mary Washington, 1900, B. A., Columbus.
- Rice, Susan Esther, 1899, B. A., Columbus, 111 West Fifth avenue.
- Richardson, Hamilton Hutchinson, 1892, B. Agr., Brooklyn, gardner.
- Richardson, William Waddle, 1899, B. Ph., Washington, D. C.
- Richey, Luzerne A., 1897, B. Ph.
- Rickey, Alla B., 1889, B. Ph. (Mrs. Geo. H. Cless), 18th street, Columbus.
- Rickey, Tallmadge A., 1900, B. Ph., Columbus.
- Riddle, Howard Sterling, 1897, M. E. in E.E., Akron, mechanical engineer Diamond Rubber Co.
- Riddle, Lumina C., 1897, B. Sc., 1898, M. Sc., Grand Haven, Mich., teacher in Science and Mathematics in the Akeley Institute.
- Rietz, Henry Lewis, 1899, B. Ph., Gilmore.
- Riggs, Ernest Jacob, 1895, B. Sc. (Agr.), M. Sc. (H. & F.), Raccoon Island, O.
- Rightmire, George Washington, 1895, B. Ph., 1898, M. A., Columbus, teacher in High School.
- Ritchey, Joseph C., 1890, B. Sc., Mingo Junction, with Junction Iron and Steel Co..
- Roach, Simeon Andrew, 1899, B. Ph., Chillicothe.
- Robbins, George A., 1899, B. Ph., Columbus, Lexington avenue.
- Roberts, Cyrus Swan, 1898, E. M., chemist and assayer.
- Robinson, Eckla Mazola, 1892, B. Sc. (Mrs. George Rowe).
- Robinson, Erdis Geroska, 1893, C. E., resident engineer engineering department of Mexican Central Railway, Guadalajara, Mexico.
- Robinson, Zella Vina, 1898, B. Ph., 1900, M. A., Columbus, Highland street.
- Rockwell, Mary Fannie, 1899, B. Ph., Columbus.
- Roebuck, Carl Fletcher, 1900, B. Ph., Columbus, student State University Law College.
- Rogers, Andrews, 1896, B. Ph., New York City, student, College of Physicians and Surgeons.
- Rogers, Frank Persons, 1899, B. A., Columbus, 140 Warren street.
- Rogers, James Bertrad, 1896, E. M., chemist Salem Iron Co., Leetonia, O.
- Roney, Mary Malvina, 1901, B. Ph., Columbus.
- Root, Willis J., 1885, E. M., Columbus, chemist, National Steel Co.
- Rowlee, Henry A., 1897, M. E., Columbus, inspector Ordnance Department U. S. A., The Rarig Eng. Co.
- Ruhlen, Carl Marble, 1898, M. E., Tacoma, Wash., assistant quartermaster's agent U. S. Army.
- Ruhlen, Frank, 1896, B. Sc. (Agr.), Columbus, assistant in Agriculture, State University.
- Rule, Ralph R., 1897, LL. B. (B. S., Tri-State College, Ind.), Greenspring.



- Ruppersburg, Emma Anna, 1891, B. Sc., 1896, M. Sc., Columbus, teacher in High School, 842 South High street  
 Russell, Ralston, 1896, B. Ph., Pomeroy.  
 Ryland, Paul Dillon, 1901, C. E., Columbus.

## S

- Sabine, Annie Ware, 1884, B. A., 1886, A. M., (1888, B. Sc., Mass. Institute Technology), (Mrs. W. H. Siebert), Columbus  
 Sabine, Wallace Clement, 1886, B. A. (M. A., Harvard), 53 Trowbridge street, Cambridge, Mass., assistant professor in Physics, Harvard University.  
 Sackett, Carl Leroy, 1901, LL. B., Big Horn City, Wyo.  
 Safford, Robert Edwin, 1894, B. Sc., New York City, Mexican Metallurgico Co.  
 Sandoe, Lydora Olivia, 1893, LL. B. (Mrs. Bachman), 1425 Bryden Road, Columbus.  
 Sater, Lowry Francis, 1895, B. Ph., 1897, LL. B., Columbus, attorney, 114 Buttes avenue.  
 Sayre, Charles B., 1900, B. A., Columbus, fellow in Library, State University, Columbus.  
 Scarlett, Henry Lancelot, 1901, B. A., Columbus.  
 Schaff, Mae B., 1900, B. Ph., Columbus.  
 Schaub, Edward Louis Tascher, 1885, M. E., Columbus, assistant superintendent Associated Charities.  
 Schaup, Charles E., 1897, E. M., chief engineer Southern Coal and Transportation Co., Berrysburg, W. Va.  
 Scheibell, William O., 1888, E. M., Columbus, secretary and general manager, The American Art Tile Co.  
 Schlesinger, Hugo Nathan, 1899, LL. B., Xenia.  
 Schreiber, George E., 1900, M. E. in EE., St. Louis, Mo., electrical engineer with H. H. Humphrey.  
 Schreiber, John Martin, 1899, M. E. in EE., Cleveland, Cleveland Electric Street Railway.  
 Schroll, Otto, 1886, C. E., Wheeling, W. Va., superintendent Wheeling Terminal R. R. Co.  
 Schueller, Erwin Waldemar, 1892, B. A., M. D., 1894, Columbus, physician, 439 South High street.  
 Schwier, Minona, 1897, B. A., Columbus, 212 East Mound street.  
 Scott, Anna Neill, 1886, B. A., 1274 Summit street, Columbus.  
 Scott, Bertha, 1890, B. Ph., Indianola Place, Columbus.  
 Scott, Herbert, 1893, B. Sc., Columbus, pastor North M. E. Church, 2533 East avenue.  
 Scott, Charles Felton, 1885, B. A., Pittsburg, Pa., chief electrician Westinghouse E. & M. C., 6214 Sellers street.  
 Scott, Daisy Medill, 1887, B. A., Columbus, teacher in High School.  
 Scott, Dudley, 1900, B. Ph., Columbus.  
 Scott, Emma, 1888, B. Sc., Brindiban, India Missionary.  
 Scott, Ernest, 1897, B. Sc. (Agr.), Columbus, assistant physician Columbus State Hospital.  
 Scott, Mary Odella, 1885, B. A., Columbus, teacher in High School, 87 West Fourth avenue.  
 Scott, Mary Mermon, 1887, B. A., 1274 Summit street, Columbus.  
 Scott, Mary Bole, 1896, B. A., Columbus, teacher, 926 Oak street.  
 Sears, Walter James, 1894, B. Ph., Chillicothe, with Sears and Nichols Co.

- Sedgwick, Edward Crayton, 1895, M. E. in E.E., Columbus, Case Mfg. Co., mechanical draftsman.
- Selby, Augustine D., 1893, B. Sc., Wooster, botanist and chemist, Ohio Experiment Station.
- Sellings, Albert Eugene, 1896, B. Ph., M. D., Bellevue Interne, New York.
- Seney, Allen J. (B. Ph., University of Michigan), 1899, LL. B., North Baltimore.
- Serva, Adam A., 1893, M. E. in E.E., Ft. Wayne, Ind., assistant sales manager Fort Wayne Electric Works.
- Seymour, Raymond J., 1900, B. Sc., Fellow in Natural History, Tuft's College.
- Shark, Robert J., 1897, LL. B., Hamilton.
- Sharp, Charles C., 1888, C. E., president Raven Coal and Coke Co., superintendent Boomer Coal and Coke Co., Boomer, W. Va.
- Sharp, David Barton, 1893, LL. B., Columbus, 335 West Fourth avenue.
- Shaw, Harry R., 1901, B. Ph., Zanesville.
- Shellabarger, Marley Rolin, 1897, B. Sc. (Agr.), Garland, Ohio.
- \*Shepard, Frank Reed., 1893, B. A., died August, 1893.
- Shepherd, Charles W., 1900, C. E., with structural department Illinois Steel Co., Chicago, Ill.
- Sherman, Christopher Elias, 1894, C. E., Columbus, associate professor in Civil Engineering, State University.
- Sherman, John King, 1901, C. E., Columbus.
- Shield, Wallace B., 1898, B. A., Kansas City, Mo., Manual Training High School.
- Short, Sidney H., 1880, B. Sc., 44 Broad street, New York City.
- Shuck, Carey Lucas, 1898, B. Ph., "Pittsburg Post," Pittsburg, Pa.
- Shurtz, Olive L., 1898, B. Ph., Columbus, 26 King avenue.
- Siebert, Wilbur H., 1888, B. A. (M. A., Harvard), Columbus, associate professor History, State University.
- Sigerfoos, Charles Peter, 1889, B. Sc., 1897, Ph. D. (Johns Hopkins University), Minneapolis, Minn., professor of Zoology, University of Minnesota.
- Sigerfoos, Edward, 1891, B. Ph., Vigan, Illocees Sur, P. I., Capt. 51st U. S. Infantry.
- Simonton, Mark, 1895, M. E. in E.E., Columbus, treasurer and general manager Electric Supply and Construction Co.
- Simpson, Abigail Ellen, 1895, B. A., Canton, Ohio.
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